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— COMMITTED TO PROTECTION OF THE ENVIRONMENT —

FINAL
PHASE II DATA ADDENDUM
SITE 2-17
LAKE LADORA AND LAKE MARY
VERSION 3.1

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October 1988
Contract No. DAAK11-84-D-0017
TASK NO. 20 - Lower Lake

EBASCO SERVICES INCORPORATED

R. L. Stollar and Associates
California Analytical Laboratories, Inc.
DataChem, Inc. Geraghty & Miller, Inc.

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LITIGATION TECHNICAL SUPPORT AND SERVICES
ROCKY MOUNTAIN ARSENAL

(2)

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Prepared by:

EBASCO SERVICES INCORPORATED
R.L. STOLLAR AND ASSOCIATES
CALIFORNIA ANALYTICAL LABORATORIES, INC.
DATACHEM, INC. GERAGHTY & MILLER, INC.

Prepared for:

U.S. ARMY PROGRAM MANAGER'S OFFICE FOR
ROCKY MOUNTAIN ARSENAL CONTAMINATION CLEANUP

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1.0 PHASE II PROGRAM

During the Phase I program at Sites 2-17a (Lake Ladora) and 2-17b (Lake Mary), sediments from Lake Ladora were found to contain dibromochloropropane, tetrachloroethylene, methylisobutyl ketone, arsenic, mercury, chromium, copper, lead, zinc, and tentatively identified dichlorofluoromethane within or above their indicator levels. A previous study by the U.S. Army Engineering Waterways Experimental Station, reported by Myers and Greg in 1984, had also found aldrin, dieldrin, and endrin at concentrations below Phase I program detection limits, as well as mercury above its indicator level, in sediments from Lakes Mary and Ladora (Ebasco, 1987/RIC 87216R07). Due to the detection of these contaminants at Site 2-17, a Phase II program was initiated at the site in the fall of 1987.

The Phase II program was generally conducted as presented in the Phase I Contamination Assessment Report (CAR). The number of samples were as planned in the Phase I program, but there were minor deviations in boring locations and depths. Proposed Phase II Borings 22 and 23 were renumbered as Borings 50 and 51, respectively, to avoid confusion with Borings 22 and 23 from the Phase I program. Borings 43 and 44 were moved approximately 12 feet (ft) toward the shore of Lake Ladora, since the staked locations were in an arm of Ladora Lake too shallow to be accessed by barge and too deep to be sampled from land. Difficulty in collection of the lake sediment samples from the 4 to 5 ft boring intervals was discussed in the Phase I CAR, but only seven of the twenty-eight total borings were not drilled to the intended 5 ft depth. The 4 to 5 ft sample interval was adjusted accordingly for Boring 24 (3.3-4.3 ft), Boring 25 (3.9-4.9 ft), Boring 27 (3-4 ft), Boring 33 (3.4-4.4 ft), Boring 34 (3.3-4.3 ft), Boring 35 (3.2-4.2 ft), and Boring 51 (3.5-4.5 ft). The planned 0 to 1 ft samples for Borings 24 and 33 were collected from 0.3 to 1.3 ft, and the 2 to 3 ft sample for Boring 51 was collected from 1.5 to 2.5 ft. Except for the variations discussed above, borings were drilled to 5 ft and sampled at the 0 to 1, 2 to 3, and 4 to 5 ft intervals. In all, 28 borings were drilled, yielding 84 samples.

Prior to any Phase II drilling, the Program Manager's Office, Ebasco, Morrison-Knudsen Engineers (MKE), and R. L. Stollar and Associates formulated procedures for MKE to obtain subsamples from selected soil cores during Phase II drilling. MKE did not subsample any borings for Site 2-17.

Analytes and analytical methods were as planned in the Phase I CAR. Selected samples (see Table 2-17-II-2, Section 4.0 of this report) were analyzed by atomic absorption spectroscopy (AA) for arsenic and mercury, by gas chromatography/electron capture detector (GCECD) for dibromochloropropane and organochlorine pesticides, by an inductively coupled argon plasma (ICP) screen for metals, by gas chromatography/mass spectrometry (GC/MS) for volatile target organics (24 instead of 25 as planned), by gas chromatography/conductivity detector (GCCON) for volatile halogenated organic compounds, and by gas chromatography/flame ionization detector (GCFID) for volatile hydrocarbon compounds. The GC/MS method can also be used to detect nontarget compounds. Due to coverage from volatile target organics analysis, no GC/MS confirmation analysis was performed. Although the maximum number of samples to be tested for OCPs was listed as 84 in the text of the Phase I CAR, the maps in the Phase I CAR (Figures 2-17-8a and 8b) correctly showed the number of samples as 78. The number of samples to be analyzed for mercury was listed as 18 in the Phase I CAR text, but, based on the maps, the number of samples planned for analysis was 33. This corresponded to the number of samples analyzed for mercury in the Phase II program for Site 2-17.

Appendix 2-17-II-A presents a complete list of all analytical methods and target analytes used in the Phase I and Phase II programs; methods and analytes were chosen from the list for use at this site.

The analytical method for organochlorine pesticides is capable of detecting several analytes including hexachlorocyclopentadiene. For some samples analyzed for organochlorine pesticides, the quality control spike recovery for hexachlorocyclopentadiene was not within established quality control limits. The chemical characteristics of the constituent are such that it is not stable in the spike samples. For the samples in which the spike recovery for hexachlorocyclopentadiene was outside the control limits, the results are reported in Table 2-17-II-2 as "data unacceptable."

In addition to these analytes and analytical methods, Ebasco proposed to analyze a select group of the collected samples for a number of ancillary parameters. Ancillary parameters analyzed in Site 2-17 samples included total organic carbon, soil pH, electrical conductivity, redox potential, percent moisture, and particle size (Table 2-17-II-4, Section 4.0). Measurement of field temperature, originally intended as support for field pH measurements, was excluded from the suite of ancillary parameters once it was determined that pH could be more accurately measured in the laboratory.

2.0 PHASE II FIELD OBSERVATIONS

There were no appreciable changes at the site since the Phase I program was conducted in the fall of 1985 and spring of 1986. At the time of drilling, all of the Phase II borings were located in water, at depths of less than 1 ft to 17 ft in Lake Ladora, and in 4 to 16 ft of water in Lake Mary. Boring 49 was located in a separate body of water from the other Phase II Lake Mary borings.

In situ air monitoring was conducted during drilling operations for safety purposes using a photoionization detector (HNU) and an organic vapor analyzer (OVA). OVA readings above background were detected in thirteen borings. HNU readings were recorded above background level in nine borings. Several of these readings were thought to be associated with organic material on the lake floor. The results of the volatile organic readings down the borings at the sampled depths are presented in Table 2-17-II-2, Section 4.0 of this report.

The history of this site did not indicate a need for use of an M8 alarm or M18A2 test kit. No unexploded ordnance, buried metal, or other objects were detected during drilling. Drilling difficulties were mainly associated with recovery of wet soil samples. All of the borings were wet down to 3 ft, and most were wet to 5 ft. The location of Boring 49 in a separate body of water made it necessary to use a crane to lift the small barge on location and to pull the sample out of the boring. All except five borings (Borings 25, 38, 40, 43, and 48) penetrated from 0.3 to 3.5 ft of black lake sediment. Iron staining was observed in the 3.5 to 5 ft intervals of Borings 36 and 42, and

in the 4 to 5 ft interval of Boring 41. The staining was associated with lime-rich material in Boring 36, with lime and black staining in Boring 41, and with black staining on fractures in Boring 42. Lime was also observed in very thin veins in the 2.5 to 4.5 ft interval of Boring 51.

3.0 GEOPHYSICAL EXPLORATION

No geophysical survey was conducted at Site 2-17 during Phase II drilling because historic data indicated that the presence of unexploded ordnance, buried metal, or any other object was highly unlikely.

4.0 PHASE II ANALYTE LEVELS AND DISTRIBUTION

The number of samples containing each analyte, the concentration range, median, mean, standard deviation, detection limit, and indicator level are listed in Table 2-17-II-1. The results of geologic field observations, air monitoring during drilling, and the chemical analysis of each soil sample are summarized in Table 2-17-II-2. Table 2-17-II-3 lists the boring number, sample interval depth, relative retention time (shown as "unknown number" on the table), concentration, sample number, lot, best-fit identification, and comments for those nontarget compounds detected by GC/MS analysts of samples from Site 2-17. The physical and chemical ancillary parameters and results for selected samples are presented in Table 2-17-II-4. A tabulation of all analytical data associated with the Phase II program is presented in Appendix 2-17-II-B.

To assess the significance of metal and organic analytical values, indicator ranges were established during the Phase I program. For organic compounds, the indicator level is the method detection limit. For metals, a range of values was chosen to reflect the upper end of the expected natural range for each metal as normally found in RMA alluvial soil. The procedure for establishing indicator ranges is presented in the Introduction to the Contamination Assessment Reports (ESE, 1987/RIC 88204R02).

Table 2-17-II-1. Summary of Analytical Results for Site 2-17, Phase II. Page 1 of 1.

Constituent Detected	Number of Samples*	Concentration (ug/g)					CAL Detection Limit	Indicator Level
		Range	Median**	Mean**	Standard Deviation**	DataChem Detection Limit		
<u>Volatile Organics (N=24)</u>								
1,1,1-Trichloroethane	1	0.6	-	-	-	0.4	0.3	DL
Methylene chloride	6	1-2	2	2	0.4	2.0	0.7	DL
<u>Volatile Halogenated Organics (N=9)</u>								
None detected	"							
Dibromochloropropane (N=18)	2	0.0074-0.016	-	-	-	0.0050	0.014	DL
<u>Organochlorine Pesticides (N=78)</u>								
2,2-bis(Para-chlorophenyl)-1,1-dichloroethane	8	0.0046-0.024	0.0082	0.010	0.0064	0.0024	***	DL
2,2-bis(Para-chlorophenyl)-1,1,1-trichloroethane	4	0.0088-0.15	-	-	-	0.0020	***	DL
Aldrin	9	0.0029-1.7	0.011	0.20	0.56	0.0019	***	DL
Dieldrin	3	0.0038-0.053	-	-	-	0.0033	***	DL
Endrin	2	0.0069-0.0088	-	-	-	0.0058	***	DL
Hexachlorocyclopentadiene*	0					0.0018	***	DL
Isodrin	3	0.0042-0.042	-	-	-	0.0011	***	DL
<u>Volatile Hydrocarbon Compounds (N=9)</u>								
None detected								
<u>ICP Metals (N=18)</u>								
Cadmium	1	1.1	-	-	-	0.74	0.66	1-2
Chromium	13	9.0-28	15	15	5.6	6.5	5.2	25-40
Copper	15	7.1-34	11	14	8.0	4.7	4.9	20-35
Lead	7	12-64	19	24	18	8.4	13	25-40
Zinc	18	22-120	39	46	25	8.7	9.5	60-80
Arsenic (N=6)	2	3.1-5.2	-	-	-	2.5	5.0	DL-10
<u>Mercury (N=33)</u>								
None detected						0.050	0.060	DL-0.10

DL - The indicator level is the detection limit for DataChem and CAL Laboratories, as appropriate

N - Number of samples analyzed

* - Number of samples in which constituent was detected; only these sample results were used in statistical analyses

** - Median, mean and standard deviation not calculated when constituent detected in fewer than 5 samples

*** - Laboratory not certified for analytical method

† - Analyte listed due to being listed on Table 2

Table 2-17-11-2. Results of Phase II Field Study. Page 1 of 10.

Depth (feet)	Geologic Material	Boring 24			Boring 25			Boring 26		
		0.3-1.3 Organic Silty Sand	2-3 Clayey Sand	3.3-4.3 Clayey Sand	0-1 Organic Sandy Silt	2-3 Clayey Sand	3.9-4.9 Clayey Sand	0-1 Organic Clayey Sand	2-3 Clayey Sand	4-5 Clayey Sand
Percent Fines ^{VO}		40	10	10	60	25	25	10	10	10
AIR MONITORING										
Volatile Organic Readings (ppm)										
HNUS		NRD	NRD	NRD	NRD	NRD	NRD	NRD	NR	NR
OVAS		NRD	NRD	NRD	NRD	NRD	NRD	NRD	NR	NR
SOIL CHEMISTRY										
Volatile Organics (ug/g)										
1,1,1-Trichloroethane		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL
Methylene chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Halogenated										
Organics (ug/g)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane (ug/g)		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL
Organochlorine Pesticides (ug/g)										
2,2-bis(Para-chlorophenyl)-		0.0055	BDL	BDL	BDL	BDL	BDL	0.0046	BDL	BDL
1,1-dichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	0.15	BDL	BDL
2,2-bis(Para-chlorophenyl)-		BDL	BDL	BDL	BDL	BDL	BDL	0.0092	BDL	BDL
1,1,1-trichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	0.0038	BDL	BDL
Aldrin		BDL	BDL	BDL	BDL	BDL	BDL	0.0088	BDL	BDL
Dieldrin		BDL	BDL	BDL	BDL	BDL	BDL	DU	DU	DU
Endrin		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isodrin		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Hydrocarbon										
Compounds (ug/g)		BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
ICP Metals (ug/g)										
Cadmium		NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (ug/g)		NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (ug/g)		NA	NA	NA	NA	NA	BDL	NA	NA	BDL

BDL - Below detection limit

NRD - Background

DU - Data unacceptable

NA - Not analyzed

NR - Not recorded

S - As referenced to calibration standard of methane for OVA, and benzene for HNUS; reading has been adjusted to account for background level

VO - As determined by visual observation and rounded to the nearest 5 percent

Table 2-17-II-2. Results of Phase II Field Study. Page 2 of 10.

Depth (feet)	Geologic Material	Boring 27				Boring 28				Boring 29			
		0-1 Limey Clayey Sand w/Organics	2-3 Sand	3-4 Sand	0-1 Organic Sandy Clay	2-3 Sand/Sandy Clay	4-5 Sandy Clay	0-1 Organic Sandy Silt	2-3 Sand w/Clay	4-5 Sand w/Clay			
Percent PinesVO		30	0	0	55	0/60	60	60	5	5			
AIR MONITORING													
Volatile Organic Readings (ppm)													
HNuS		BKD	NR	BKD	BKD	NR	BKD	BKD	NR	BKD			
OVAS		BKD	NR	10	4.0	NR	BKD	BKD	NR	BKD			
SOIL CHEMISTRY													
Volatile Organics (ug/g)													
1,1,1-Trichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA			
Methylene chloride		BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA			
Volatile Halogenated Organics (ug/g)													
Dibromochloropropane (ug/g)		NA	NA	NA	NA	NA	NA	NA	NA	NA			
Organochlorine Pesticides (ug/g)		NA	NA	NA	BDL	BDL	BDL	0.016	0.0074	BDL			
2,2-bis(Para-chlorophenyl)-1,1-dichloroethane													
2,2-bis(Para-chlorophenyl)-1,1,1-trichloroethane		NA	NA	NA	BDL	BDL	BDL	0.014	BDL	BDL			
Aldrin		NA	NA	NA	0.0088	BDL	BDL	BDL	BDL	BDL			
Dieldrin		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	0.011			
Endrin		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL			
Hexachlorocyclopentadiene		NA	NA	NA	DU	DU	DU	DU	DU	DU			
Isodrin		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL			
Volatile Hydrocarbon Compounds (ug/g)													
ICP Metals (ug/g)		NA	NA	NA	NA	NA	NA	NA	NA	NA			
Cadmium		NA	NA	NA	NA	NA	NA	BDL	BDL	BDL			
Chromium		NA	NA	NA	NA	NA	NA	28	9.1	15			
Copper		NA	NA	NA	NA	NA	NA	34	7.7	8.8			
Lead		NA	NA	NA	NA	NA	NA	64	12	26			
Zinc		NA	NA	NA	NA	NA	NA	120	30	43			
Arsenic (ug/g)		NA	NA	NA	NA	NA	NA	NA	NA	NA			
Mercury (ug/g)		NA	NA	NA	NA	NA	BDL	NA	NA	BDL			

BDL - Below detection limit

BKD - Background

DU - Data unacceptable

NA - Not analyzed

NR - Not recorded

S - As referenced to calibration standard of methane for OVA, and benzene for HNu; reading has been adjusted to account for background level

VO - As determined by visual observation and rounded to the nearest 5 percent

Table 2-17-II-2. Results of Phase II Field Study. Page 4 of 10.

Depth (feet)	Geologic Material	Boring 33			Boring 34			Boring 35		
		0.3-1.3 Sand	2-3 Clayey Sand	3.4-4.4 Clayey Sand	0-1 Organic Sandy Silt	2-3 Organic Sandy Silt	3.3-4.3 Silty Sand	0-1 Organic Sandy Silt	2-3 Silty Sand trace Clay	3.2-4.2 Silty Sand trace Clay
Percent PineasVO		0	10	10	60	60	40	60	30	30
AIR MONITORING										
Volatile Organic Readings (ppm)										
HNuS		BDL	NR	BDL	BDL	NR	BDL	BDL	NR	BDL
OVA S		BDL	NR	BDL	300	NR	BDL	1.0	NR	BDL
SOIL CHEMISTRY										
Volatile Organics (ug/g)										
1,1,1-Trichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene chloride		2	2	2	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Halogenated										
Organics (ug/g)		NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloropropane (ug/g)		NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides (ug/g)		NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-bis(Para-chlorophenyl)-1,1-dichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,2-bis(Para-chlorophenyl)-1,1,1-trichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldrin		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Endrin		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene		DU	BDL	BDL	DU	DU	DU	DU	DU	DU
Isodrin		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Hydrocarbon										
Compounds (ug/g)		NA	NA	NA	NA	NA	NA	NA	NA	NA
ICP Metals (ug/g)		BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium		17	12	15	18	BDL	BDL	BDL	BDL	BDL
Chromium		14	11	14	19	BDL	BDL	BDL	BDL	BDL
Copper		19	BDL	13	21	BDL	BDL	BDL	BDL	BDL
Lead		50	39	52	76	27	33	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (ug/g)		NA	NA	BDL	NA	NA	BDL	NA	NA	BDL
Mercury (ug/g)		NA	NA	BDL	NA	NA	BDL	NA	NA	BDL

BDL - Below detection limit

BKD - Background

DU - Data unacceptable

NA - Not analyzed

NR - Not recorded

S - As referenced to calibration standard of methane for OVA, and benzene for HNu; reading has been adjusted to account for background level

VO - As determined by visual observation and rounded to the nearest 5 percent

Table 2-17-II-2. Results of Phase II Field Study. Page 5 of 10.

Depth (feet)	Geologic Material	Boring 36			Boring 37			Boring 38		
		0-1 Organic Sandy Clay	2-3 Clayey Sand	4-5 Sandy Clay w/Lime	0-1 Organic Sand	2-3 Organic Sandy Clay	4-5 Sandy Clay	0-1 Organic Sandy Clay/ Sand	2-3 Sand	4-5 Gravelly Sand/Sandy Clay
Percent PinesVO		90	45	55	0	70	80	80/0	0	0/60
AIR MONITORING										
Volatile Organic Readings (ppm)										
HMUS		150	BRD	200	200	NR	220	1.0	NR	BRD
OVAS		400	BRD	BRD	BRD	NR	BRD	0.2	NR	BRD
SOIL CHEMISTRY										
Volatile Organics (ug/g)										
1,1,1-trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics (ug/g)										
Dibromochloropropane (ug/g)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides (ug/g)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-bis(Para-chlorophenyl)-										
1,1-dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,2-bis(Para-chlorophenyl)-										
1,1,1-trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Endrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	DU	DU	DU	DU	DU	DU	DU	DU	DU	DU
Isodrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Hydrocarbon										
Compounds (ug/g)										
ICP Metals (ug/g)										
Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper	7.1	12	7.6	BDL	BDL	BDL	7.7	NA	NA	NA
Lead	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc	29	54	29	22	22	27	52	NA	NA	NA
Arsenic (ug/g)	BDL	BDL	5.2	3.1	3.1	BDL	BDL	NA	NA	BDL
Mercury (ug/g)	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	BDL

BDL - Below detection limit

BRD - Background

DU - Data unacceptable

NA - Not analyzed

NR - Not recorded

S - As referenced to calibration standard of methane for OVA, and benzene for HNU; reading has been adjusted to account for background level

VO - As determined by visual observation and rounded to the nearest 5 percent

Site 2-17

5103A/1129A

Table 2-17-11-2. Results of Phase II Field Study. Page 6 of 10.

Depth (feet)	Geologic Material	Boring 39				Boring 40				Boring 41			
		0-1 Organic Sandy Clay	2-3 Sandy Clay	4-5 Sand w/Clay	0-1 Organic Sand w/Clay	2-3 Sandy Clay	4-5 Sandy Clay	0-1 Organic Clayey Sand	2-3 Sandy Clay	4-5 Sandy Clay	0-1 Organic Clayey Sand	2-3 Sandy Clay	4-5 Clay w/Lime
Percent Pine	VO	60	80	5	5	70	60	15	60	100			
AIR MONITORING													
Volatile Organic Readings (ppm)													
HNUS													
OVAS													
SOIL CHEMISTRY													
Volatile Organics (ug/g)													
1,1,1-Trichloroethane													
Methylene chloride													
Volatile Halogenated													
Organics (ug/g)													
Dibromochloropropane (ug/g)													
Organochlorine Pesticides (ug/g)													
2,2-bis(Para-chlorophenyl)-													
1,1-dichloroethane													
2,2-bis(Para-chlorophenyl)-													
1,1,1-trichloroethane													
Aldrin													
Dieldrin													
Endrin													
Hexachlorocyclopentadiene													
Isodrin													
Volatile Hydrocarbon													
Compounds (ug/g)													
ICP Metals (ug/g)													
Cadmium													
Chromium													
Copper													
Lead													
Zinc													
Arsenic (ug/g)													
Mercury (ug/g)													

BDL - Below detection limit

BKD - Background

DU - Data unacceptable

NA - Not analyzed

NR - Not recorded

S - As referenced to calibration standard of methane for OVA, and benzene for HNUS; reading has been adjusted to account for background level

VO - As determined by visual observation and rounded to the nearest 5 percent

Table 2-17-II-2. Results of Phase II Field Study. Page 7 of 10.

Depth (feet)	Boring 42				Boring 43			Boring 44		
	0-1	2-3	4-5	4-5	0-1	2-3	4-5	0-1	2-3	4-5
Geologic Material	Organic Sand trace Clay	Sand w/Clay	Clay trace Sand	Clay trace Sand	Organic Sand w/silt	Silty Gravelly Sand	Silty Gravelly Sand	Organic Pebbly Silty Sand/Silty Sand	Silty Sand	Silty Sand
Percent Fines ^{VO}	LT 5	5	GT 95	5	5	10	10	15/20	20	15
AIR MONITORING										
Volatile Organic Readings (ppm)										
HNuS	BDK	NR	BDK	BDK	BDK	NR	BDK	BDK	BDK	BDK
OVAS	BDK	NR	BDK	BDK	BDK	NR	BDK	BDK	BDK	BDK
SOIL CHEMISTRY										
Volatile Organics (ug/g)										
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Halogenated Organics (ug/g)										
Dibromochloropropane (ug/g)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides (ug/g)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-bis(Para-chlorophenyl)-1,1-dichloroethane										
1,1,1-trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,2-bis(Para-chlorophenyl)-1,1,1-trichloroethane										
Aldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	0.0071	0.020	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Endrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	DU	DU	DU	DU	DU	DU	DU	DU	DU	DU
Isodrin	0.037	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Hydrocarbon Compounds (ug/g)										
ICP Metals (ug/g)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ICP Metals (ug/g)										
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (ug/g)										
Mercury (ug/g)										
Mercury	NA	NA	BDL	BDL	NA	NA	BDL	NA	NA	BDL

BDL - Below detection limit

BDK - Background

DU - Data unacceptable

GT - Greater than

LT - Less than

NA - Not analyzed

NR - Not recorded

S - As referenced to calibration standard of methane for OVA, and benzene for HNu; reading has been adjusted to account for background level

VO - As determined by visual observation and rounded to the nearest 5 percent

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5103A/1129A

Table 2-17-II-2. Results of Phase II Field Study. Page 8 of 10.

Depth (feet)	Boring 45				Boring 46				Boring 47			
	0-1	2-3	4-5		0-1	2-3	4-5		0-1	2-3	4-5	
Geologic Material	Organic Clayey Sandy Silt	Silty Sand trace Clay	Sand w/Gravel and Clay		Organic Silty Sand trace Gravel	Gravelly Sand w/Silt	Clayey Silty Sand w/Gravel		Organic Silty Sand	Gravelly Sand w/Silt	Gravelly Sand w/Silt	
Percent PinesVO	60	15	5		40	5	30		40	5	5	

AIR MONITORING

Volatile Organic Readings (ppm)

HNU5	0.0*	NR	NR	NR	NR	NR	NR	NR	195	195	NR
OVA5	6.5	NR	NR	NR	1.0	NR	NR	NR	15	NR	1.0-1.5

SOIL CHEMISTRY

Volatile Organics (ug/g)

1,1,1-Trichloroethane

Methylene chloride

Volatile Halogenated

Organics (ug/g)

Dibromochloropropane (ug/g)

Organochlorine Pesticides (ug/g)

2,2-bis-(para-chlorophenyl)-

1,1-dichloroethane

2,2-bis-(para-chlorophenyl)-

1,1,1-trichloroethane

Aldrin

Dieldrin

Endrin

Hexachlorocyclopentadiene

Isodrin

Volatile Hydrocarbon

Compounds (ug/g)

ICP Metals (ug/g)

Cadmium

Chromium

Copper

Lead

Zinc

Arsenic (ug/g)

Mercury (ug/g)

NA	NA	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR
NA	NA	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR
NA	NA	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR
NA	NA	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR
0.0082	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
0.015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
0.0049	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NA	NA	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR
NA	NA	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR
NA	NA	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR
NA	NA	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR
NA	NA	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR
NA	NA	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL - Below detection limit

BKD - Background

NA - Not analyzed

S - As referenced to calibration standard of methane for OVA, and benzene for HNU; reading has been adjusted to account for background level

VO - As determined by visual observation and rounded to the nearest 5 percent

* - Recorded reading was zero, however background was not recorded

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5107A/1129A

Table 2-17-11-2. Results of Phase II Field Study. Page 9 of 10.

Depth (feet)	Geologic Material	Boring 48			Boring 49			Boring 50		
		0-1	2-3	4-5	0-1	2-3	4-5	0-1	2-3	4-5
		Organic Silty Sand trace Gravel	Gravelly Sand w/Silt	Sandy Clayey Silt	Organic Sandy Silt	Organic Silty Sand w/Gravel	Silty Sand w/Gravel	Organic Sand and Silt	Organic Sand and Silt	Clayey Sand w/Gravel
Percent Fines ^{VO}		20	5	90	55	55/10	10	50	50	10

AIR MONITORING

Volatile Organic Readings (ppm)

HNuS	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
OVS	0.5	NR	NR	NR	10	NR	0.5	NR	NR	NR

SOIL CHEMISTRY

Volatile Organics (ug/g)										
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Halogenated Organics (ug/g)										
Dibromochloropropane (ug/g)	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL
Organochlorine Pesticides (ug/g)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-bis(Para-chlorophenyl)-1,1-dichloroethane										
2,2-bis(Para-chlorophenyl)-1,1,1-trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.024	BDL	BDL
Aldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Endrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isodrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0042	BDL	BDL
Volatile Hydrocarbon Compounds (ug/g)										
ICP Metals (ug/g)	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (ug/g)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (ug/g)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA

BDL - Below detection limit

BKD - Background

DU - Data unacceptable

NA - Not analyzed

NR - Not recorded

S - As referenced to calibration standard of methane for OVA, and benzene for HNu; reading has been adjusted to account for background level

VO - As determined by visual observation and rounded to the nearest 5 percent

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K1111A/1129A

Table 2-17-II-2. Results of Phase II Field Study. Page 10 of 10.

Depth (feet)	Boring 51			
	0-1	1.5-2.5	3.5-4.5	
Geologic Material	Organic Silt and Sand	Organic Silt and Sand	Clayey Silty Sand	
Percent fines _{VO}	50	50	55	

AIR MONITORING			
Volatile Organic Readings (ppm)			
HNuS	0.0*	NR	0.0*
OVAS	0.0*	NR	0.0*

SOIL CHEMISTRY			
Volatile Organics (ug/g)			
1,1,1-Trichloroethane	NA	NA	NA
Methylene chloride	NA	NA	NA
Volatile Halogenated			
Organics (ug/g)	BDL	BDL	BDL
Dibromochloropropane (ug/g)	NA	NA	NA
Organochlorine Pesticides (ug/g)			
2,2-bis(Para-chlorophenyl)-1,1-dichloroethane	BDL	BDL	BDL
2,2-bis(Para-chlorophenyl)-1,1,1-trichloroethane	BDL	BDL	BDL
Aldrin	BDL	BDL	BDL
Dieldrin	BDL	BDL	BDL
Endrin	BDL	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL	BDL
Isodrin	BDL	BDL	BDL
Volatile Hydrocarbon			
Compounds (ug/g)	BDL	BDL	BDL
ICP Metals (ug/g)			
Cadmium	NA	NA	NA
Chromium	NA	NA	NA
Copper	NA	NA	NA
Lead	NA	NA	NA
Zinc	NA	NA	NA
Arsenic (ug/g)			
Mercury (ug/g)	NA	NA	NA

BDL - Below detection limit

NRD - Background

NA - Not analyzed

NR - Not recorded

S - As referenced to calibration standard of methane for OVA, and benzene for HNu; reading has been adjusted to account for background level

VO - As determined by visual observation and rounded to the nearest 5 percent

* - Recorded reading was zero, however background was not recorded

Table 2-17-II-3. Tentative Identification of Montarget Compounds, Phase II. Page 1 of 1.

Borehole Number	Interval Depth (ft)	Unknown Number	Concentration (ppm)*	Sample Number	Lot	Best-fit Identification	Comments
25	0-1			002	CYL		K
	2-3			003	CYL		K
	3.9-4.9			004	CYL		K
26	0-1			002	CYS		K
	2-3			003	CYS		K
	4-5			004	CYS		K
27	0-1			005	CYS		K
	2-3			006	CYS		K
	3-4			007	CYS		K
28	0-1			008	CYS		K
	2-3			002	CYT		K
	4-5			003	CYT		K
31	0-1			004	CYT		K
	2-3			005	CYT		K
	4-5			006	CYT		K
32	0-1			007	CYT		K
	2-3			008	CYT		K
	4-5			005	CYT		K
33	0.3-1.3			005	CYL		K
	2-3			006	CYL		K
	3.4-4.4			007	CYL		K
34	0-1			002	CYT		K
	2-3			003	CYT		K
	3.3-4.3			004	CYT		K

K=None detected
 *Values reported are blank corrected

Table 2-17-II-4. Physical and Chemical Characteristics of Selected Phase II Samples. Page 1 of 4.

Depth (feet) Geologic Material	Boring 29				Boring 32			Boring 34	
	0-1 Organic Sandy Silt	2-3 Sand w/Clay	4-5 Sand w/Clay	0-1 Organic Clayey Sand	2-3 Clayey Sand	4-5 Clayey Sand w/Gravel	0-1 Organic Sandy Silt	2-3 Organic Sandy Silt	3.3-4.3 Silty Sand
<u>Physical Parameters</u>									
% Moisture	NA	NA	NA	25	18	16	NA	NA	NA
Particle Size Analysis	NA	NA	NA				NA	NA	NA
% Passing Sieve No.:									
4 (Gravel)				100	100	100			
10 (Sand)				98	100	98			
40 (Sand)				85	94	87			
200 (Silts/Clays)				32	64	51			
<u>Chemical Parameters</u>									
Total Organic Carbon (%)	2.6	0.16	0.20	1.0	0.30	0.17	0.17	0.20	0.15
Soil Reaction (pH)	7.7	8.3	8.5	7.5	8.0	8.0	7.7	8.1	8.5
Electrical Conductivity (umhos/cm)	1000	305	408	1110	761	783	953	407	307
Redox Potential (mV)	NA	NA	NA	168	182	176	NA	NA	NA

mV - Millivolts
NA - Not analyzed
umhos/cm - Micromhos per centimeter

Table 2-17-II-4. Physical and Chemical Characteristics of Selected Phase II Samples. Page 2 of 4.

Depth (feet)	Geologic Material	Boring 36			Boring 39			Boring 42		
		0-1	2-3	4-5	0-1	2-3	4-5	0-1	2-3	4-5
		Organic Sandy Clay	Clayey Sand	Sandy Clay w/Lime	Organic Sandy Clay	Sandy Clay	Sand w/Clay	Organic Sand Trace Clay	Sand w/Clay	Clay Trace Sand
<u>Physical Parameters</u>										
% Moisture										
Particle Size Analysis										
# Passing Sieve No.:										
4 (Gravel)		NA	NA	NA	23	16	16	NA	NA	NA
10 (Sand)		NA	NA	NA	100	100	100	NA	NA	NA
40 (Sand)					94	84	84			
200 (Silt/Clays)					56	36	28			
<u>Chemical Parameters</u>										
Total Organic Carbon (%)										
Soil Reaction (pH)										
Electrical Conductivity (umhos/cm)										
Redox Potential (mV)										
		0.32	0.24	0.03	0.53	0.30	0.13	0.53	0.03	0.07
		7.6	6.7	7.5	7.9	7.7	7.8	7.0	8.2	7.8
		299	324	267	123	350	362	369	216	150
		NA	NA	NA	87	234	227	NA	NA	NA

mV - Millivolts
 NA - Not analyzed
 umhos/cm - Micromhos per centimeter

Table 2-17-II-4. Physical and Chemical Characteristics of Selected Phase II Samples. Page 3 of 4.

Depth (feet)	Geologic Material	Boring 44			Boring 46		
		0-1	2-3	4-5	0-1	2-3	
	Organic		Silty Sand	Silty Sand	Organic	Gravelly	
	Pebbly Silty				Silty Sand	Sand w/Silt	
	Sand/Silty				Trace Gravel		
	Sand						
<u>Physical Parameters</u>							
% Moisture		15	16	17	19	14	
Particle Size Analysis							
% Passing Sieve No.:							
4 (Gravel)	100	100	100	100	100	100	
10 (Sand)	96	97	98	98	100	98	
40 (Sand)	85	73	37	74	26	26	
200 (Silts/Clays)	39	14	6	17	3	3	
<u>Chemical Parameters</u>							
Total Organic Carbon (%)	0.12	0.09	ND	0.04	ND		
Soil Reaction (pH)	7.8	7.6	7.8	7.5	7.6		
Electrical Conductivity (umhos/cm)	279	388	141	104	114		
Redox Potential (mv)	224	238	225	391	403		

mV - Millivolts
 NA - Not analyzed
 ND - Not detected
 umhos/cm - Micromhos per centimeter

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Table 2-17-II-4. Physical and Chemical Characteristics of Selected Phase II Samples. Page 4 of 4.

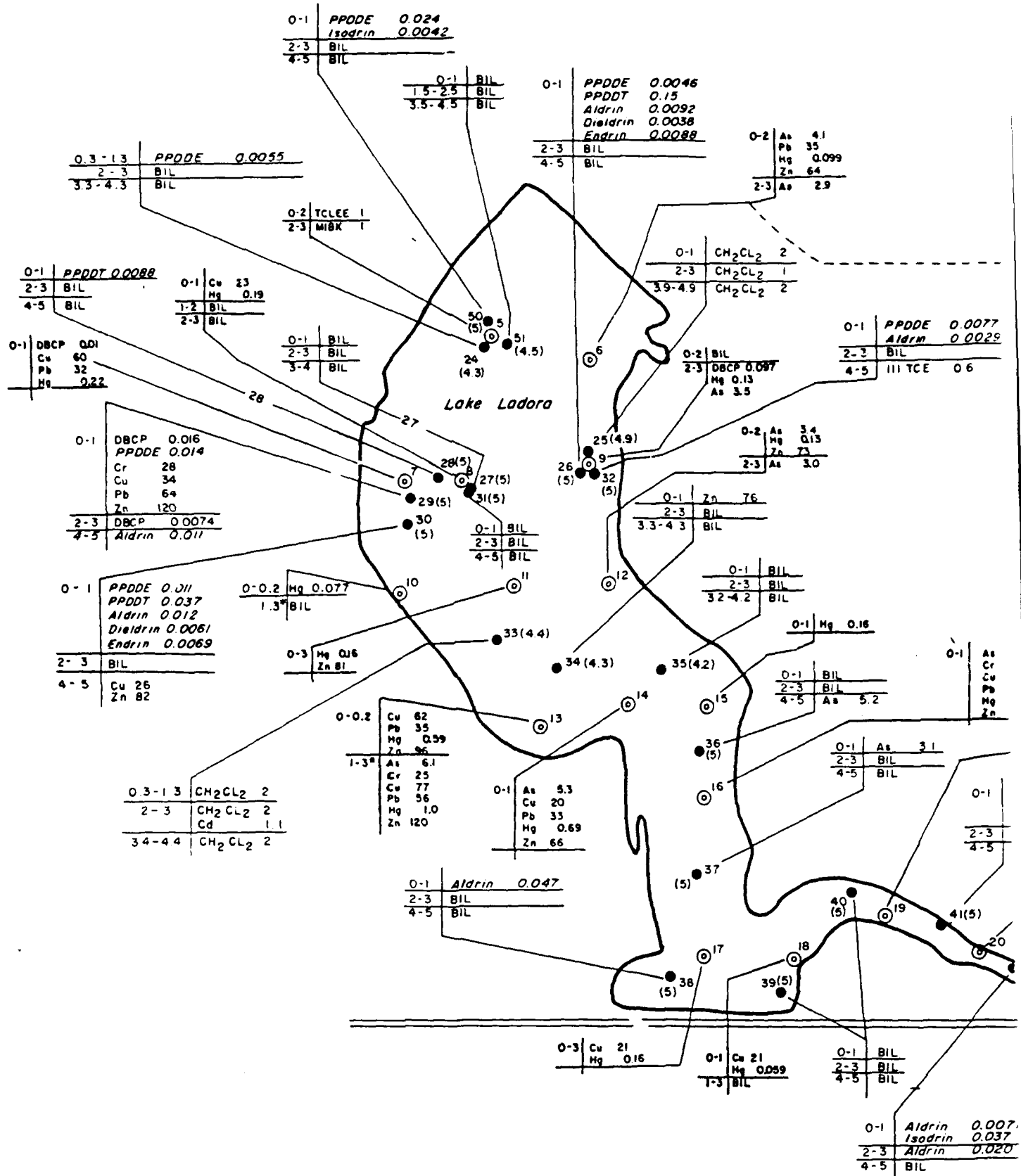
Depth (feet)	Geologic Material	Boring 47		Boring 49		Boring 51	
		0-1	2-3	0-1	2-3	0-1	1.5-2.5
		Organic Silty Sand	Gravelly Sand w/Silt	Organic Sandy Silt	Organic Silty Sand w/Gravel	Organic Silty Sand	3.5-4.5 Claye. Silty Sand
<u>Physical Parameters</u>							
% Moisture		NA	NA	23	12	18	16
Particle Size Analysis		NA	NA				
% Passing Sieve No.:							
4 (Gravel)				100	100	100	100
10 (Sand)				100	99	100	100
40 (Sand)				94	79	92	95
200 (Silts/Clays)				65	20	42	50
<u>Chemical Parameters</u>							
Total Organic Carbon (%)		0.53	ND	0.33	ND	0.55	0.10
Soil Reaction (pH)		6.8	7.7	6.6	7.3	7.5	8.5
Electrical Conductivity (umhos/cm)		1340	314	350	131	1080	341
Redox Potential (mV)		NA	NA	206	376	67	190

mV - Millivolts
 NA - Not analysed
 umhos/cm - Micromhos per centimeter

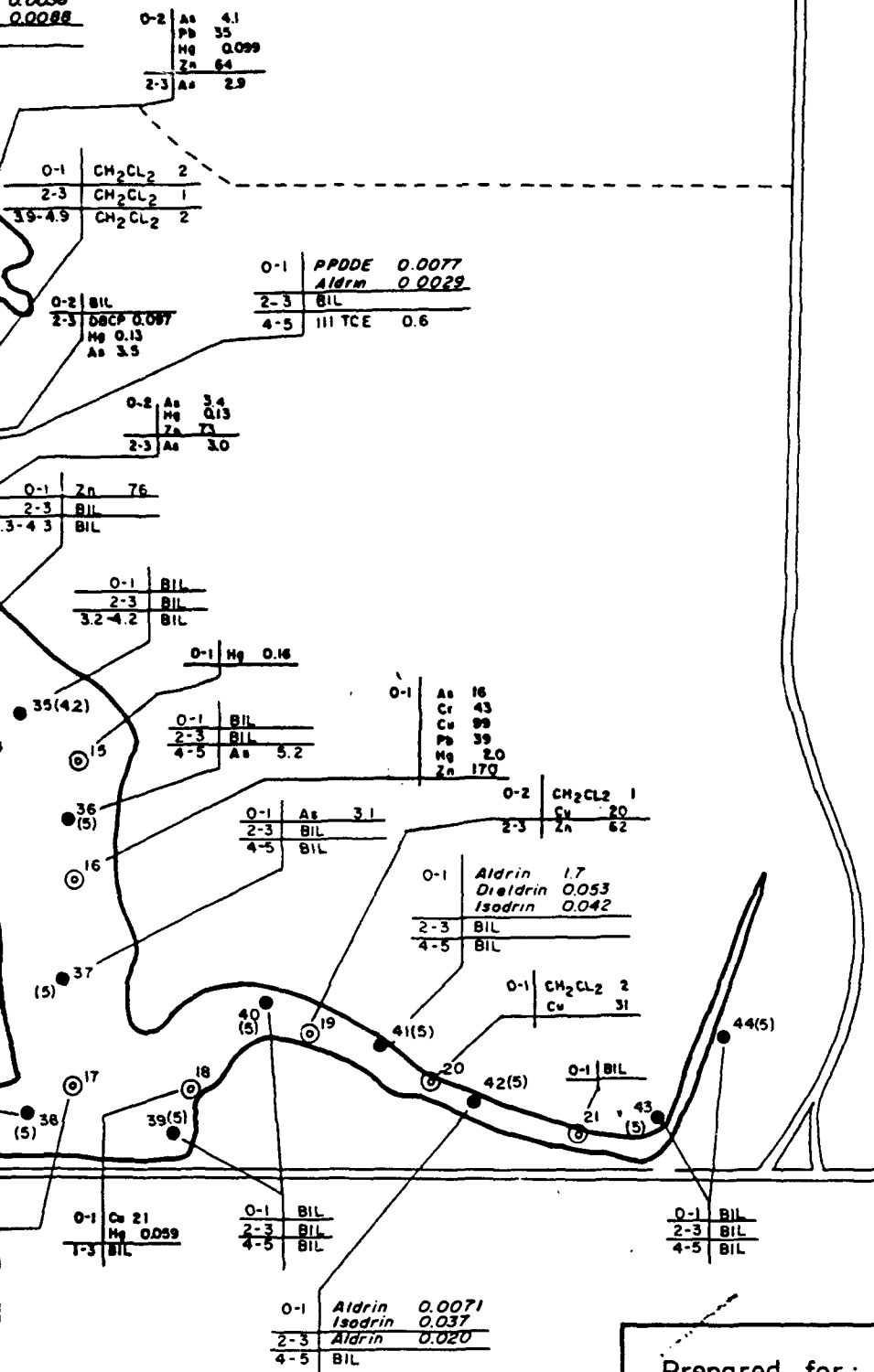
Samples from the Phase II borings were analyzed for volatile target organics, volatile halogenated organics, dibromochloropropane, organochlorine pesticides, volatile hydrocarbon compounds, ICP metals (cadmium, chromium, copper, lead, zinc), arsenic, and mercury. Figures 2-17-II-1a and 1b, which show the locations of the borings as drilled in Lake Ladora and Lake Mary, respectively, illustrate the analytes detected within or above their indicator levels. 1,1,1-Trichloroethane, methylene chloride, dibromochloropropane, organochlorine pesticides, cadmium, chromium, copper, lead, zinc, and arsenic were detected in the samples from Site 2-17 (Figures 2-17-II-1a and 1b). For purposes of comparison, the analytes detected within or above their indicator levels during the Phase I program are also presented in Figures 2-17-II-1a and 1b. At Site 2-17, both Phase I and Phase II programs used the same methods of analysis and detection limits for volatile organics, ICP metals, arsenic, and mercury so the resulting data were directly comparable; however, volatile halogenated organics, organochlorine pesticides, and volatile hydrocarbon compounds were also analyzed by more sensitive methods in the Phase II program, enabling detection of these compounds at lower concentrations than by the GC/MS method. No nontarget compounds were detected by GC/MS analysis of samples from Site 2-17, and no hits were detected in any of the blanks.

The data reporting procedures as described in the Laboratory Quality Assurance Plan, RMA (Ebasco, 1985/RIC 86241R02) required that all analyses on a sample be completed within the sample's respective holding time, and that analytical results be corrected for percent recovery and moisture content. During routine sample analysis, analytical results must either have fallen within or have been diluted within the certified range, provided that holding times had not expired.

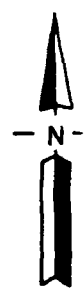
During laboratory certification, an analytical method was tested over a certain concentration range to determine the certified range. A typical tested concentration range would have been 0, 0.5x, 1.0x, 2.0x, 5.0x, and 10.0x, where x was the Target Reporting Limit (TRL). The Certified Reporting



0.0046
0.15
0.0092
0.0038
0.0088



TCLE
DBC
PPD
PPD
CH₂
BIL
MIB
*



0 600
FEET

Prepared for : Program Manager's Office for Rocky Mountain Arsenal Cleanup Aberdeen Proving Ground, Maryland Revised: 11/4/88	FIGURE 2-17 Phase I and Detected With Indicator Lev Rocky Mountain Prepared by: Et
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Legend

- ⑥ Phase I boring
- (5) ●³⁰ Phase II boring with total depth (ft.) drilled

Sampling Interval (ft.) → 0-1 As 3.1 → Level (ug/g)
 2-3 Aldrin 0.020
 Phase II analytes detected by different method - see text

TCLEE	Tetrachloroethylene
DBCP	Dibromochloropropane
PPDDE	2,2-bis (Para-chlorophenyl)-1,1-dichloroethane
PPDDT	2,2-bis Para-chlorophenyl)-1,1-trichloroethane
CH ₂ CL ₂	Methylene chloride
BIL	Below Indicator Level
MIBK	Methyl isobutyl Ketone
*	Composite of 1'-2' and 2'-3 Samples

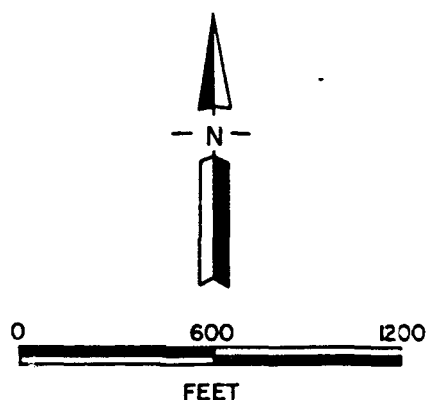
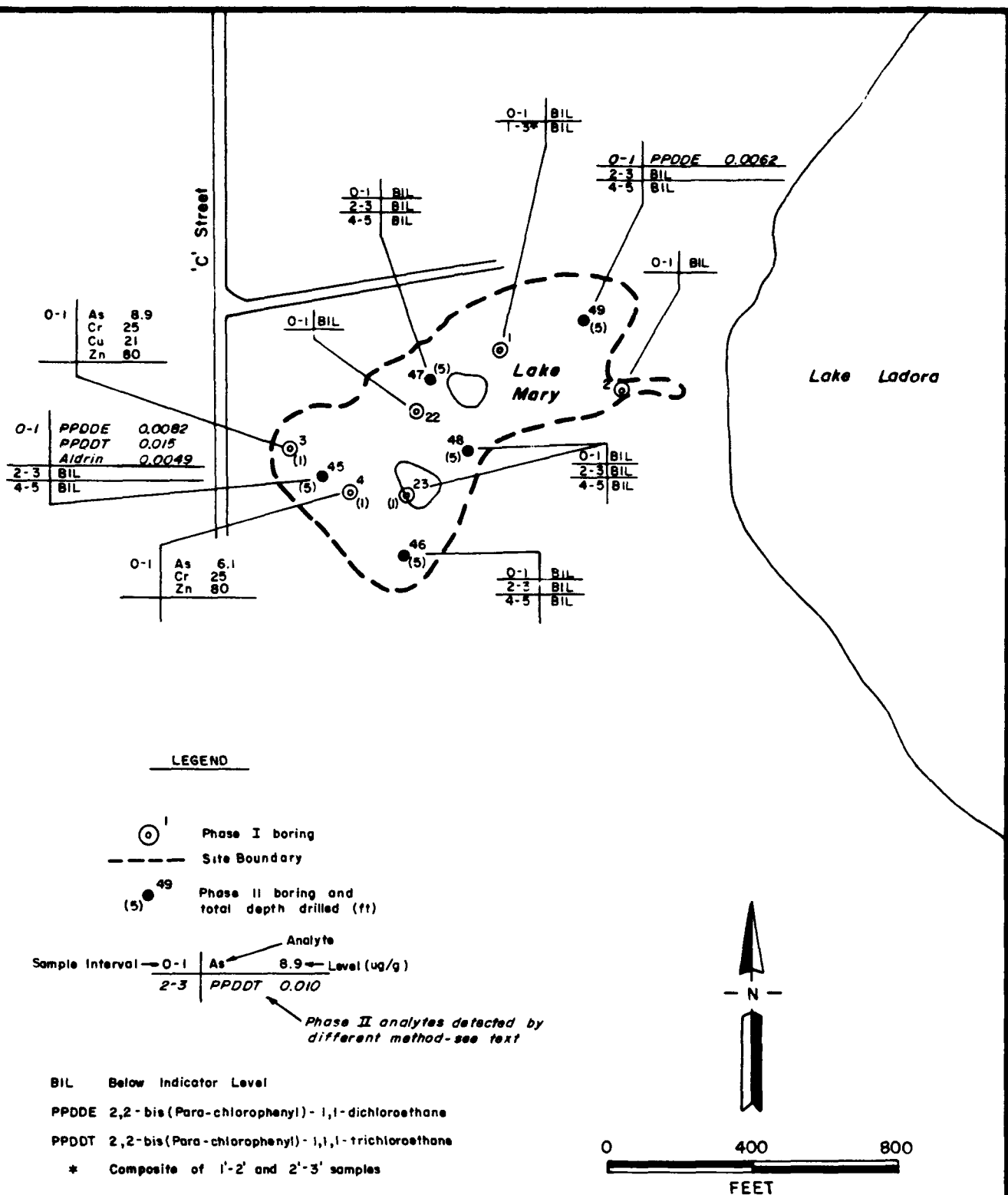


FIGURE 2-17-II-2-1a

Phase I and Phase II Analytes
 Detected Within or Above
 Indicator Levels, Lake Ladora

Rocky Mountain Arsenal, Task 20

Prepared by: Ebasco Services Incorporated



Prepared for:

Program Manager's Office for
 Rocky Mountain Arsenal Cleanup
 Aberdeen Proving Ground, Maryland

Drafted: 6/10/88

FIGURE 2-17-II-1b

Phase I and Phase II Analytes
 Detected Within or Above Indicator
 Levels, Lake Mary
 Rocky Mountain Arsenal, Task 20

Prepared by: Ebasco Services Incorporated

Limit (CRL) was determined by comparing the target and actual concentrations of the tested range. The upper certified range was the highest target concentration achieved. If a sample analysis indicated that the sample was not diluted adequately to be within the certified range, the result was reported as greater than the upper certified range times any dilution factors.

If a sample had exceeded its holding time and the result was greater than the certified range, the result was reported as greater than the upper certified range. If holding times were exceeded in an attempt to dilute the sample until all results were within the certified range, results that were not identified above the certified range, but that may have been present at concentrations above the certified detection limit, were reported as the detection limit times the dilution factor.

Results of the Phase II sampling program at Site 2-17 are to be analyzed as part of the overall analysis for the Southern Study Area Report.5.0

REFERENCES CITED

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RIC 87216R07

Ebasco. 1987, July. Final Phase I Contamination Assessment Report; Site 2-17, Lake Ladora and Lake Mary; Version 3.2; Task 7. Contract No. DAAK11-84-D-0017. Prepared for Program Manager's Office for Rocky Mountain Arsenal Contamination Cleanup.

RIC 88204R02

ESE. (Environmental Science and Engineering). 1987. Introduction to the Contamination Assessment Report. RMA. Prepared for PMO for Rocky Mountain Arsenal Contamination Cleanup.

Appendix 2-17- II-A

**Chemical Names
and
Abbreviations**

APPENDIX 2-17-II-A
Chemical Names and Abbreviations

Analytic Methods

Abbreviations

Atomic Absorption Spectroscopy	AA
Gas Chromatography/Conductivity Detector	GCCON
Gas Chromatography/Electron Capture Detector	GCECD
Gas Chromatography/Flame Ionization Detector	GCFID
Gas Chromatography/Flame Photometric Detector	GCFPD
Gas Chromatography/Mass Spectrometry	GCMS
Gas Chromatography/Nitrogen Phosphorous Detector	GCNPD
Gas Chromatography/Photoionization Detector	GCPID
High Performance Liquid Chromatography	HPLC
Inductive Coupled Argon Plasma Screen	ICP
Ion Chromatography	IONCHROM
Spectrophotometry	SPECT

PHASE I ANALYTES AND CERTIFIED METHODS
SOIL SAMPLES

<u>Analysis/Methods/Analytes</u>	<u>Synonymous Names Used in Appendix B</u>	<u>Abbreviations</u>
<u>AGENT PRODUCTS/HPLC</u>		<u>TDG</u>
Chloroacetic acid	Chloroacetic acid	CLC2A
Thiodiglycol	Thiodiglycol (TDG)	TDGCL
<u>AGENT PRODUCTS/IONCHROM</u>		<u>GBDP</u>
Isopropylmethylphosphonic acid	Isopropylmethylphosphonate	IMPA
<u>ANIONS/IONCHROM</u>		<u>ANIONS</u>
Chloride	Chloride	CL
Fluoride	Fluoride	FL
Sulfate	Sulfate	SO4
<u>ARSENIC/AA</u>	Arsenic	AS
<u>DIBROMOCHLOROPROPANE/GCECD</u>	Dibromochloropropane	DBCP
<u>HYDRAZINES/SPECT</u>		<u>HYD</u>
Hydrazine	Hydrazine	HYDRZ
Methylhydrazine	Methylhydrazine	MHYDRZ
Unsymmetrical dimethyl hydrazine	Unsymmetrical dimethyl hydrazine	UDMH
<u>MERCURY/AA</u>	Mercury	HG

APPENDIX 2-17-II-A (Continued)
Phase I

<u>Analysis/Methods/Analytes</u>	<u>Synonymous Names Used in Appendix B</u>	<u>Abbreviations</u>
<u>METALS/ICP</u>		<u>ICP</u>
Cadmium	Cadmium	CD
Chromium	Chromium	CR
Copper	Copper	CU
Lead	Lead	PB
Zinc	Zinc	ZN
<u>ORGANONITROGEN COMPOUNDS/GC/NPD</u>		<u>ONC</u>
n-Nitrosodimethylamine	n-Nitrosodimethylamine	NNDMEA
n-Nitrosodi-n-propylamine	n-Nitrosodi-n-propylamine	NNDNPA
<u>ORGANOPHOSPHOROUS COMPOUNDS/GC/FPD</u>		<u>OPC</u>
Diisopropylmethyl phosphonate	Diisopropylmethyl phosphonate	DIMP
Dimethylmethyl phosphonate	Dimethylmethyl phosphate	DMMP
<u>SEMIVOLATILE ORGANIC COMPOUNDS/ GC/MS</u>		<u>SVO</u>
1,4-Oxathiane	1,4-Oxathiane	OXAT
2,2-bis(Para-chlorophenyl)- 1,1-dichloroethane	Dichlorodiphenylethane	PPDDE
2,2-bis(Para-chlorophenyl)- 1,1,1-trichloroethane	Dichlorodiphenyltrichloro- ethane	PPDDT
Aldrin	Aldrin	ALDRN
Atrazine	Atrazine	ATZ
Chlordane	Chlordane	CLDAN
Chlorophenylmethyl sulfide	p-Chlorophenylmethyl sulfide	CPMS
Chlorophenylmethyl sulfone	p-Chlorophenylmethyl sulfone	CPMSO2
Chlorophenylmethyl sulfoxide	p-Chlorophenylmethyl sulfoxide	CPMSO
Dibromochloropropane	Dibromochloropropane	DBCP
Dicyclopentadiene	Dicyclopentadiene	DCPD
Dieldrin	Dieldrin	DLDRN
Diisopropylmethyl phosphonate	Diisopropylmethyl phosphonate	DIMP
Dimethylmethyl phosphonate	Dimethylmethyl phosphonate	DMMP*
Dithiane	Dithiane	DITH
Endrin	Endrin	ENDRN
Hexachlorocyclopentadiene	Hexachlorocyclopentadiene	CL6CP
Isodrin	Isodrin	ISODR
Malathion	Malathion	MLTHN
Parathion	Parathion	PRTHN
Supona	2-Chloro-1 (2,4-dichlorophenyl) vinyl-diethyl phosphates	SUPONA
Vapona	Vapona	DDVP

* DMMP is certified as part of the semivolatile organic compound method only for Hittman-Ebasco Laboratory.

APPENDIX 2-17-II-A (Continued)
Phase I

<u>Analysis/Methods/Analytes</u>	<u>Synonymous Names Used in Appendix B</u>	<u>Abbreviations</u>
<u>VOLATILE ORGANIC COMPOUNDS/ GCMS</u>		<u>VQ</u>
1,1-Dichloroethane	1,1-Dichloroethane	11DCLE
1,2-Dichloroethane	1,2-Dichloroethane	12DCLE
1,1,1-Trichloroethane	1,1,1-Trichloroethane	111TCE
1,1,2-Trichloroethane	1,1,2-Trichloroethane	112TCE
Benzene	Benzene	C6H6
Bicycloheptadiene	Bicycloheptadiene	BCHPD
Carbon tetrachloride	Carbon tetrachloride	CCL4
Chlorobenzene	Chlorobenzene	CLC6H5
Chloroform	Chloroform	CHCL3
Dibromochloropropane	Dibromochloropropane	DBCP
Dicyclopentadiene	Dicyclopentadiene	DCPD
Dimethyldisulfide	Dimethyldisulfide	DMDS
Ethylbenzene	Ethylbenzene	ETC6H5
m-Xylene	m-Xylene	13DMB
Methylene chloride	Methylene chloride	CH2CL2
Methylisobutyl ketone	Methylisobutyl ketone	MIBK
o- and p-Xylene	Ortho- & Para-xylene	XYLEN
Tetrachloroethylene	Tetrachloroethene	TCLEE
Toluene	Toluene	MEC6H5
Trans-1,2-dichloroethylene	Trans-1,2-dichloroethene	12DCE
Trichloroethylene	Trichloroethene	TRCLE

APPENDIX 2-17-II-A
Phase II

PHASE II ANALYTES AND CERTIFIED METHODS
SOIL SAMPLES

<u>Analysis/Methods/Analytes</u>	<u>Synonymous Names Used in Appendix B</u>	<u>Abbreviations</u>
<u>AGENT PRODUCTS/HPLC</u> (Same as Phase I)		<u>IDG</u>
<u>AGENT PRODUCTS/IONCHROM</u> (Same as Phase I)		<u>GBDP</u>
<u>ANIONS/IONCHROM</u> (Same as Phase I)		<u>ANIONS</u>
<u>ARSENIC/AA</u>	Arsenic	<u>AS</u>
<u>DIBROMOCHLOROPROPANE/GC</u>	Dibromochloropropane	<u>DBCP</u>
<u>HYDRAZINES/SPECT</u> (Same as Phase I)		<u>HYD</u>
<u>MERCURY/AA</u>	Mercury	<u>HG</u>
<u>METALS/ICP</u> (Same as Phase I)		<u>ICP</u>
<u>ORGANOCHLORINE PESTICIDES/GCECD</u>		<u>OCP</u>
2,2-bis(Para-chlorophenyl)- 1,1-dichloroethane	Dichlorodiphenylethane	<u>PPDDE</u>
2,2-bis(Para-chlorophenyl)- 1,1,1-trichloroethane	Dichlorodiphenyltrichloro- ethane	<u>PPDDT</u>
Aldrin	Aldrin	<u>ALDRN</u>
Chlordane	Chlordane	<u>CLDAN</u>
Dieldrin	Dieldrin	<u>DLDRN</u>
Endrin	Endrin	<u>ENDRN</u>
Hexachlorocyclopentadiene	Hexachlorocyclopentadiene	<u>CL6CP</u>
Isodrin	Isodrin	<u>ISODR</u>
<u>ORGANONITROGEN COMPOUNDS/GCNPD</u> (Same as Phase I)		<u>ONC</u>
<u>ORGANOPHOSPHOROUS COMPOUNDS/GCFPD</u> (Same as Phase I)		<u>OPC</u>

APPENDIX 2-17-II-A (Continued)
Phase II

<u>Analysis/Methods/Analytes</u>	<u>Synonymous Names Used in Appendix B</u>	<u>Abbreviations</u>
ORGANOPHOSPHORUS PESTICIDES/ GCNPD		
Atrazine	Atrazine	OFF
Malathion	Malathion	ATZ
Parathion	Parathion	MLTHN
Supona	2-Chloro-1 (2,4-dichlorophenyl) vinyl diethyl phosphates	PRTHN
Vapona	Vapona	SUPONA
		DDVP
ORGANOSULPHUR COMPOUNDS/GCFPD		
1,4-Oxathiane	1,4-Oxathiane	OSC
Chlorophenylmethyl sulfide	p-Chlorophenylmethyl sulfide	OXAT
Chlorophenylmethyl sulfone	p-Chlorophenylmethyl sulfone	CPMS
Chlorophenylmethyl sulfoxide	p-Chlorophenylmethyl sulfoxide	CPMSO2
Dimethyldisulfide	Dimethyldisulfide	CPMSO
Dithiane	Dithiane	DMDS
		DITH
SEMIVOLATILE ORGANIC COMPOUNDS/ GCMS		
(Same as Phase I)		SVQ
VOLATILE AROMATIC ORGANIC COMPOUNDS/GCPID		
Benzene	Benzene	VAQ
Ethylbenzene	Ethylbenzene	C6H6
m-Xylene	m-Xylene	ETC6H5
o- and p-Xylene	Ortho- & Para-xylene	13DMB
Toluene	Toluene	XYLEN
		MEC6H5
VOLATILE HALOGENATED ORGANIC COMPOUNDS/GCCON		
1,1-Dichloroethane	1,1-Dichloroethane	VHQ
1,2-Dichloroethane	1,2-Dichloroethane	11DCLE
1,1-Dichloroethene	1,1-Dichloroethene	12DCLE
1,1,1-Trichloroethane	1,1,1-Trichloroethane	11DCE
1,1,2-Trichloroethane	1,1,2-Trichloroethane	111TCE
Carbon tetrachloride	Carbon tetrachloride	112TCE
Chlorobenzene	Chlorobenzene	CCL4
Chloroform	Chloroform	CLC6H5
Methylene chloride	Methylene chloride	CHCL3
Tetrachloroethylene	Tetrachloroethene	CH2CL2
Trans-1,2-dichloroethylene	Trans-1,2-dichloroethene	TCLEE
Trichloroethylene	Trichloroethene	T12DCE
		TRCLE

APPENDIX 2-17-II-A (Continued)
Phase II

<u>Analysis/Methods/Analytes</u>	<u>Synonymous Names Used in Appendix B</u>	<u>Abbreviations</u>
<u>VOLATILE HYDROCARBON COMPOUNDS/ GCFID</u>		<u>HYDCEN</u>
Bicycloheptadiene	Bicycloheptadiene	BCHPD
Dicyclopentadiene	Dicyclopentadiene	DCPD
Methylisobutyl ketone	Methylisobutyl ketone	MIBK
<u>VOLATILE ORGANIC COMPOUNDS/GCMS</u> (Same as Phase I)		<u>VO</u>

Appendix 2-17- II-B
Phase II Chemical Data

APPENDIX 2-17-II-B
Phase II Chemical Data

The analytical results of the laboratory analysis of soil samples collected as part of the program comprise the first part of Appendix 2-17-II-B. Data are listed sequentially by boring number and successive depths below the surface. Within each depth, all analytes for which the samples were tested are listed alphabetically. Results are given as less than (LT) the detection limit for the test laboratory, or as detected concentrations above this limit. Based on the accuracy of laboratory test methods, values for GC/MS volatile and GC/MS semivolatile compounds are considered accurate to one significant figure; values for analytes detected by all other methods used in this program are considered accurate to two significant figures.

The second part of Appendix 2-17-II-B contains data from the blanks associated with the analytical work. Blanks for the soil samples were based on a homogenized subsample of composited samples from a known uncontaminated soil that is stratigraphically similar to the RMA soils. Blanks for the water samples were based on distilled water. Control samples, or blanks, are introduced into the train of environmental samples to function as monitors on the performance of the analytical method. These samples function as quality control (QC) samples, and are an integral part of the quality assurance (QA) program for the project. The method blanks listed in this Appendix were utilized to verify that the laboratory was not a source of sample contamination. If contamination were detected in a method blank, corrective actions would have been taken to assure that reported concentrations of target analytes reflected sample analytes, and not analytes introduced by the laboratory process.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0024	0.3-1.3	Soil	1,1,1-Trichloroethane	LT 8.80 -2	ug/g	CY0011
			1,1,2-Trichloroethane	LT 2.60 -1	ug/g	CY0011
			1,1-Dichloroethane	LT 2.40 -1	ug/g	CY0011
			1,1-Dichloroethane	LT 7.40 -2	ug/g	CY0011
			1,2-Dichloroethane	LT 2.60 -1	ug/g	CY0011
			1,2-Dichloroethane	LT 8.50 -2	ug/g	CY0011
			Aldrin	LT 1.90 -3	ug/g	CYN013
			Bicycloheptadiene	LT 1.10 0	ug/g	CYP011
			Carbon Tetrachloride	LT 1.20 -1	ug/g	CY0011
			Methylene Chloride	LT 3.70 0	ug/g	CY0011
			Chloroform	LT 6.80 -2	ug/g	CY0011
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN013
			Chlorobenzene	LT 2.00 -1	ug/g	CY0011
			Chlordane	LT 2.30 -2	ug/g	CYN013
0024	2-3	Soil	Dicyclopentadiene	LT 4.50 -1	ug/g	CYP011
			Dieldrin	LT 3.30 -3	ug/g	CYN013
			Endrin	LT 5.80 -3	ug/g	CYN013
			Isodrin	LT 1.10 -3	ug/g	CYN013
			Methylisobutyl Ketone	LT 6.40 -1	ug/g	CYP011
			Dichlorodiphenylethane	5.46 -3	ug/g	CYN013
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN013
			Tetrachloroethene	LT 2.70 -1	ug/g	CY0011
			Trichloroethene	LT 1.40 -1	ug/g	CY0011
			1,1,1-Trichloroethane	LT 8.80 -2	ug/g	CY0012
			1,1,2-Trichloroethane	LT 2.60 -1	ug/g	CY0012
			1,1-Dichloroethane	LT 2.40 -1	ug/g	CY0012
			1,1-Dichloroethane	LT 7.40 -2	ug/g	CY0012
			1,2-Dichloroethane	LT 2.60 -1	ug/g	CY0012
0024	2-3	Soil	1,2-Dichloroethane	LT 8.50 -2	ug/g	CY0012
			Aldrin	LT 1.90 -3	ug/g	CYN014
			Bicycloheptadiene	LT 1.10 0	ug/g	CYP012
			Carbon Tetrachloride	LT 1.20 -1	ug/g	CY0012
			Methylene Chloride	LT 3.70 0	ug/g	CY0012

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladona and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0024	2-3	Soil	Chloroform	LT 6.80 -2	ug/g	CY0012
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN014
			Chlorobenzene	LT 2.00 -1	ug/g	CY0012
			Chlordane	LT 2.30 -2	ug/g	CYN014
			Dicyclopentadiene	LT 4.50 -1	ug/g	CYP012
			Dieldrin	LT 3.30 -3	ug/g	CYN014
			Endrin	LT 5.80 -3	ug/g	CYN014
			Isodrin	LT 1.10 -3	ug/g	CYN014
			Methylisobutyl Ketone	LT 6.40 -1	ug/g	CYP012
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYN014
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CYN014
			Tetrachloroethene	LT 2.70 -1	ug/g	CY0012
			Trichloroethene	LT 1.40 -1	ug/g	CY0012
			1,1,1-Trichloroethane	LT 8.80 -2	ug/g	CY0013
0024	3.3-4.3	Soil	1,1,2-Trichloroethane	LT 2.60 -1	ug/g	CY0013
			1,1-Dichloroethane	LT 2.40 -1	ug/g	CY0013
			1,1-Dichloroethane	LT 7.40 -2	ug/g	CY0013
			1,2-Dichloroethane	LT 2.60 -1	ug/g	CY0013
			1,2-Dichloroethane	LT 8.50 -2	ug/g	CY0013
			Aldrin	LT 1.90 -3	ug/g	CYN015
			Bicycloheptadiene	LT 1.10 0	ug/g	CYP013
			Carbon Tetrachloride	LT 1.20 -1	ug/g	CY0013
			Methylene Chloride	LT 3.70 0	ug/g	CY0013
			Chloroform	LT 6.80 -2	ug/g	CY0013
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN015
			Chlorobenzene	LT 2.00 -1	ug/g	CY0013
			Chlordane	LT 2.30 -2	ug/g	CYN015
			Dicyclopentadiene	LT 4.50 -1	ug/g	CYP013
			Dieldrin	LT 3.30 -3	ug/g	CYN015
			Endrin	LT 5.80 -3	ug/g	CYN015
			Isodrin	LT 1.10 -3	ug/g	CYN015
			Methylisobutyl Ketone	LT 6.40 -1	ug/g	CYP013
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYN015

Note: Results for some parameters may appear in more than one analytical fraction.

Ebasco Services Incorporated
Phase II Analytical Results

Rocky Mountain Arsenal Program
Task 20 , Site 2-17 Lake Ladora and Lake Mary

08/02/88

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0024	3.3-4.3	Soil	Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN015
			Tetrachloroethene	LT 2.70 -1	ug/g	CYN013
			Trichloroethene	LT 1.40 -1	ug/g	CYN013
			1,1,1-Trichloroethane	LT 3.00 -1	ug/g	CYL002
0025	0-1	Soil	1,1,2-Trichloroethane	LT 3.00 -1	ug/g	CYL002
			1,1-Dichloroethane	LT 9.00 -1	ug/g	CYL002
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYL002
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYL002
			m-Xylene	LT 7.00 -1	ug/g	CYL002
			Aldrin	LT 1.90 -3	ug/g	CXX010
			Bicycloheptadiene	LT 3.00 -1	ug/g	CYL002
			Benzene	LT 3.00 -1	ug/g	CYL002
			Carbon Tetrachloride	LT 3.00 -1	ug/g	CYL002
			Methylene Chloride	1.64 0	ug/g	CYL002
			Chloroform	LT 3.00 -1	ug/g	CYL002
			Chlorobenzene	LT 3.00 -1	ug/g	CYL002
			Chlordane	LT 2.30 -2	ug/g	CXX010
			Dibromochloropropane	LT 5.00 -3	ug/g	CXX007
			Dibromochloropropane	LT 4.00 -1	ug/g	CYL002
			Dicyclopentadiene	LT 3.00 -1	ug/g	CYL002
			Dieldrin	LT 3.30 -3	ug/g	CXX010
			Dimethyldisulfide	LT 8.00 -1	ug/g	CYL002
			Endrin	LT 5.80 -3	ug/g	CXX010
			Ethylbenzene	LT 3.00 -1	ug/g	CYL002
			Isodrin	LT 1.10 -3	ug/g	CXX010
			Toluene	LT 3.00 -1	ug/g	CYL002
			Methylisobutyl Ketone	LT 3.00 -1	ug/g	CYL002
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CXX010
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CXX010
			Tetrachloroethene	LT 3.00 -1	ug/g	CYL002
			Trichloroethene	LT 3.00 -1	ug/g	CYL002
			Ortho- & Para-Xylene	LT 3.00 -1	ug/g	CYL002

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0025	2-3	Soil	1,1,1-Trichloroethane	LT 3.00 -1	ug/g	CYL003
			1,1,2-Trichloroethane	LT 3.00 -1	ug/g	CYL003
			1,1-Dichloroethane	LT 9.00 -1	ug/g	CYL003
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYL003
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYL003
			m-Xylene	LT 7.00 -1	ug/g	CYL003
			Aldrin	LT 1.90 -3	ug/g	CXX011
			Bicycloheptadiene	LT 3.00 -1	ug/g	CYL003
			Benzene	LT 3.00 -1	ug/g	CYL003
			Carbon Tetrachloride	LT 3.00 -1	ug/g	CYL003
			Methylene Chloride	1.47 0	ug/g	CYL003
			Chloroform	LT 3.00 -1	ug/g	CYL003
			Chlorobenzene	LT 3.00 -1	ug/g	CYL003
			Chlordane	LT 2.30 -2	ug/g	CXX011
			Dibromochloropropane	LT 5.00 -3	ug/g	CXW008
			Dibromochloropropane	LT 4.00 -1	ug/g	CYL003
			Dicyclopentadiene	LT 3.00 -1	ug/g	CYL003
			Dieldrin	LT 3.30 -3	ug/g	CXX011
			Dimethyldisulfide	LT 8.00 -1	ug/g	CYL003
			Endrin	LT 5.80 -3	ug/g	CXX011
0025	3.9-4.9	Soil	Ethylbenzene	LT 3.00 -1	ug/g	CYL003
			Isodrin	LT 1.10 -3	ug/g	CXX011
			Toluene	LT 3.00 -1	ug/g	CYL003
			Methylisobutyl Ketone	LT 3.00 -1	ug/g	CYL003
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CXX011
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CXX011
			Tetrachloroethene	LT 3.00 -1	ug/g	CYL003
			Trichloroethene	LT 3.00 -1	ug/g	CYL003
			Ortho- & Para-Xylene	LT 3.00 -1	ug/g	CYL003
			1,1,1-Trichloroethane	LT 3.00 -1	ug/g	CYL004
			1,1,2-Trichloroethane	LT 3.00 -1	ug/g	CYL004
			1,1-Dichloroethane	LT 9.00 -1	ug/g	CYL004

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0025	3.9-4.9	Soil	1,2-Dichloroethene	LT 3.00 -1	ug/g	CYL004
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYL004
			m-Xylene	LT 7.00 -1	ug/g	CYL004
			Aldrin	LT 1.90 -3	ug/g	CXX012
			Bicycloheptadiene	LT 3.00 -1	ug/g	CYL004
			Benzene	LT 3.00 -1	ug/g	CYL004
			Carbon Tetrachloride	LT 3.00 -1	ug/g	CYL004
			Methylene Chloride	LT 1.63 0	ug/g	CYL004
			Chloroform	LT 3.00 -1	ug/g	CYL004
			Chlorobenzene	LT 3.00 -1	ug/g	CYL004
			Chlordane	LT 2.30 -2	ug/g	CXX012
			Dibromochloropropane	LT 5.00 -3	ug/g	CXX009
			Dibromochloropropane	LT 4.00 -1	ug/g	CYL004
			Dicyclopentadiene	LT 3.00 -1	ug/g	CYL004
0026	0-1	Soil	Dieldrin	LT 3.30 -3	ug/g	CXX012
			Dimethyldisulfide	LT 8.00 -1	ug/g	CYL004
			Endrin	LT 5.80 -3	ug/g	CXX012
			Ethylbenzene	LT 3.00 -1	ug/g	CYL004
			Mercury	LT 5.00 -2	ug/g	CXY011
			Isodrin	LT 1.10 -3	ug/g	CXX012
			Toluene	LT 3.00 -1	ug/g	CYL004
			Methylisobutyl Ketone	LT 3.00 -1	ug/g	CYL004
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CXX012
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CXX012
			Tetrachloroethene	LT 3.00 -1	ug/g	CYL004
			Trichloroethene	LT 3.00 -1	ug/g	CYL004
			Ortho- & Para-Xylene	LT 3.00 -1	ug/g	CYL004
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYS002
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYS002
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYS002
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYS002
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYS002

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0026	0-1	Soil	m-Xylene	LT 7.40 -1	ug/g	CYS002
			Aldrin	9.20 -3	ug/g	CYM005
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYS002
			Benzene	LT 2.50 -1	ug/g	CYS002
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYS002
			Methylene Chloride	LT 1.50 0	ug/g	CYS002
			Chloroform	LT 2.90 -1	ug/g	CYS002
			Chlorobenzene	LT 1.50 0	ug/g	CYS002
			Chlordane	LT 2.30 -2	ug/g	CYM005
			Dibromochloropropane	LT 2.40 0	ug/g	CYS002
			Dibromochloropropane	LT 1.40 -2	ug/g	CYM005
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYS002
			Diieldrin	3.81 -3	ug/g	CYM005
			Dimethyldisulfide	LT 2.00 1	ug/g	CYS002
			Endrin	8.76 -3	ug/g	CYM005
0026	2-3	Soil	Ethylbenzene	LT 3.80 -1	ug/g	CYS002
			Isodrin	LT 1.10 -3	ug/g	CYM005
			Toluene	LT 2.50 -1	ug/g	CYS002
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYS002
			Dichlorodiphenylethane	4.59 -3	ug/g	CYM005
			Dichlorodiphenyltrichloroethane	1.50 -1	ug/g	CYM005
			Tetrachloroethene	LT 2.50 -1	ug/g	CYS002
			Trichloroethene	LT 5.40 -1	ug/g	CYS002
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYS002
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYS003
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYS003
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYS003
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYS003
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYS003
			m-Xylene	LT 7.40 -1	ug/g	CYS003
			Aldrin	LT 1.90 -3	ug/g	CYM006
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYS003
			Benzene	LT 2.50 -1	ug/g	CYS003

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0026	2-3	Soil	Carbon Tetrachloride	LT 2.50 -1	ug/g	CYS003
			Methylene Chloride	LT 1.50 0	ug/g	CYS003
			Chloroform	LT 2.90 -1	ug/g	CYS003
			Chlorobenzene	LT 1.50 0	ug/g	CYS003
			Chlordane	LT 3.09 -2	ug/g	CY4006
			Dibromochloropropane	LT 2.40 0	ug/g	CYS003
			Dibromochloropropane	LT 1.40 -2	ug/g	CY4006
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYS003
			Dieldrin	LT 4.53 -3	ug/g	CY4006
			Dimethyldisulfide	LT 2.00 1	ug/g	CYS003
			Endrin	LT 6.57 -3	ug/g	CY4006
			Ethylbenzene	LT 3.80 -1	ug/g	CYS003
			Isodrin	LT 1.57 -3	ug/g	CY4006
			Toluene	LT 2.50 -1	ug/g	CYS003
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYS003
0026	4-5	Soil	Dichlorodiphenylethane	LT 3.36 -3	ug/g	CY4006
			Dichlorodiphenyltrichloroethane	LT 2.95 -3	ug/g	CY4006
			Tetrachloroethene	LT 2.50 -1	ug/g	CYS003
			Trichloroethene	LT 5.40 -1	ug/g	CYS003
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYS003
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYS004
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYS004
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYS004
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYS004
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYS004
			m-Xylene	LT 7.40 -1	ug/g	CYS004
			Aldrin	LT 1.90 -3	ug/g	CY4007
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYS004
			Benzene	LT 2.50 -1	ug/g	CYS004
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYS004
			Methylene Chloride	LT 1.50 0	ug/g	CYS004
			Chloroform	LT 2.90 -1	ug/g	CYS004

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0026	4-5	Soil	Chlorobenzene	LT 1.50 0	ug/g	CYS004
			Chlordane	LT 2.30 -2	ug/g	CYM007
			Dibromochloropropane	LT 2.40 0	ug/g	CYS004
			Dibromochloropropane	LT 1.40 -2	ug/g	CYM007
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYS004
			Dieldrin	LT 3.30 -3	ug/g	CYM007
			Dimethyldisulfide	LT 2.00 1	ug/g	CYS004
			Endrin	LT 5.80 -3	ug/g	CYM007
			Ethylbenzene	LT 3.80 -1	ug/g	CYS004
			Mercury	LT 5.00 -2	ug/g	CXY014
			Isodrin	LT 1.10 -3	ug/g	CYM007
			Toluene	LT 2.50 -1	ug/g	CYS004
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYS004
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYM007
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYM007
0027	0-1	Soil	Tetrachloroethene	LT 2.50 -1	ug/g	CYS004
			Trichloroethene	LT 5.40 -1	ug/g	CYS004
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYS004
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYS005
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYS005
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYS005
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYS005
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYS005
			m-Xylene	LT 7.40 -1	ug/g	CYS005
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYS005
			Benzene	LT 2.50 -1	ug/g	CYS005
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYS005
			Methylene Chloride	LT 1.50 0	ug/g	CYS005
			Chloroform	LT 2.90 -1	ug/g	CYS005
			Chlorobenzene	LT 1.50 0	ug/g	CYS005
			Dibromochloropropane	LT 2.40 0	ug/g	CYS005
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYS005
			Dimethyldisulfide	LT 2.00 1	ug/g	CYS005

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

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Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0027	0-1	Soil	Ethylbenzene	LT 3.80 -1	ug/g	CYS0005
			Toluene	LT 2.50 -1	ug/g	CYS0005
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYS0005
			Tetrachloroethene	LT 2.50 -1	ug/g	CYS0005
			Trichloroethene	LT 5.40 -1	ug/g	CYS0005
0027	2-3	Soil	Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYS0005
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYS0006
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYS0006
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYS0006
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYS0006
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYS0006
			m-Xylene	LT 7.40 -1	ug/g	CYS0006
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYS0006
			Benzene	LT 2.50 -1	ug/g	CYS0006
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYS0006
0027	3-4	Soil	Methylene Chloride	LT 1.50 0	ug/g	CYS0006
			Chloroform	LT 2.90 -1	ug/g	CYS0006
			Chlorobenzene	LT 1.50 0	ug/g	CYS0006
			Dibromochloropropane	LT 2.40 0	ug/g	CYS0006
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYS0006
			Dimethyldisulfide	LT 2.00 1	ug/g	CYS0006
			Ethylbenzene	LT 3.80 -1	ug/g	CYS0006
			Toluene	LT 2.50 -1	ug/g	CYS0006
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYS0006
			Tetrachloroethene	LT 2.50 -1	ug/g	CYS0006
0027	3-4	Soil	Trichloroethene	LT 5.40 -1	ug/g	CYS0006
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYS0006
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYS0007
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYS0007
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYS0007
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYS0007
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYS0007

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Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0027	3-4	Soil	m-Xylene	LT 7.40 -1	ug/g	CYS007
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYS007
			Benzene	LT 2.50 -1	ug/g	CYS007
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYS007
			Methylene Chloride	LT 1.50 0	ug/g	CYS007
			Chloroform	LT 2.90 -1	ug/g	CYS007
			Chlorobenzene	LT 1.50 0	ug/g	CYS007
			Dibromochloropropane	LT 2.40 0	ug/g	CYS007
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYS007
			Dimethyldisulfide	LT 2.00 1	ug/g	CYS007
0028	0-1	Soil	Ethylbenzene	LT 3.80 -1	ug/g	CYS007
			Toluene	LT 2.50 -1	ug/g	CYS007
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYS007
			Tetrachloroethene	LT 2.50 -1	ug/g	CYS007
			Trichloroethene	LT 5.40 -1	ug/g	CYS007
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYS007
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYS008
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYS008
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYS008
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYS008
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYS008
			m-Xylene	LT 7.40 -1	ug/g	CYS008
			Aldrin	LT 1.90 -3	ug/g	CY4008
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYS008
			Benzene	LT 2.50 -1	ug/g	CYS008
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYS008
			Methylene Chloride	LT 1.50 0	ug/g	CYS008
			Chloroform	LT 2.90 -1	ug/g	CYS008
			Chlorobenzene	LT 1.50 0	ug/g	CYS008
			Chlordane	LT 2.30 -2	ug/g	CY4008
			Dibromochloropropane	LT 2.40 0	ug/g	CYS008
			Dibromochloropropane	LT 1.40 -2	ug/g	CYV008
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYS008

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0028	0-1	Soil	Dieldrin	LT 3.30 -3	ug/g	CYW008
			Dimethyldisulfide	LT 2.00 1	ug/g	CYS008
			Endrin	LT 5.80 -3	ug/g	CYW008
			Ethylbenzene	LT 3.80 -1	ug/g	CYS008
			Isodrin	LT 1.10 -3	ug/g	CYW008
			Toluene	LT 2.50 -1	ug/g	CYS008
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYS008
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYW008
			Dichlorodiphenyltrichloroethane	8.62 -3	ug/g	CYW008
			Tetrachloroethene	LT 2.50 -1	ug/g	CYS008
0028	2-3	Soil	Trichloroethene	LT 5.40 -1	ug/g	CYS008
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYS008
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYT002
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYT002
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYT002
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYT002
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYT002
			m-Xylene	LT 7.40 -1	ug/g	CYT002
			Aldrin	LT 1.90 -3	ug/g	CYW009
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYT002
0028	2-3	Soil	Benzene	LT 2.50 -1	ug/g	CYT002
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYT002
			Methylene Chloride	LT 1.50 0	ug/g	CYT002
			Chloroform	LT 2.90 -1	ug/g	CYT002
			Chlorobenzene	LT 1.50 0	ug/g	CYT002
			Chlordane	LT 2.30 -2	ug/g	CYW009
			Dibromochloropropane	LT 2.40 0	ug/g	CYT002
			Dibromochloropropane	LT 1.40 -2	ug/g	CYW009
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYT002
			Dieldrin	LT 3.30 -3	ug/g	CYW009
0028	2-3	Soil	Dimethyldisulfide	LT 2.00 1	ug/g	CYT002
			Endrin	LT 5.80 -3	ug/g	CYW009

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0028	2-3	Soil	Ethylbenzene	LT 3.80 -1	ug/g	CYT002
			Isodrin	LT 1.10 -3	ug/g	CYW009
			Toluene	LT 2.50 -1	ug/g	CYT002
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYT002
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYW009
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYW009
0028	4-5	Soil	Tetrachloroethene	LT 2.50 -1	ug/g	CYT002
			Trichloroethene	LT 5.40 -1	ug/g	CYT002
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYT002
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYT003
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYT003
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYT003
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYT003
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYT003
			m-Xylene	LT 7.40 -1	ug/g	CYT003
			Aldrin	LT 1.90 -3	ug/g	CYW010
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYT003
			Benzene	LT 2.50 -1	ug/g	CYT003
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYT003
			Methylene Chloride	LT 1.50 0	ug/g	CYT003
			Chloroform	LT 2.90 -1	ug/g	CYT003
			Chlorobenzene	LT 1.50 0	ug/g	CYT003
			Chlordane	LT 2.30 -2	ug/g	CYW010
			Dibromochloropropane	LT 2.40 0	ug/g	CYT003
			Dibromochloropropane	LT 1.40 -2	ug/g	CYW010
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYT003
			Dieldrin	LT 3.30 -3	ug/g	CYW010
			Dimethyldisulfide	LT 2.00 1	ug/g	CYT003
			Endrin	LT 5.80 -3	ug/g	CYW010
			Ethylbenzene	LT 3.80 -1	ug/g	CYT003
			Mercury	LT 5.00 -2	ug/g	CXY015
			Isodrin	LT 1.10 -3	ug/g	CYW010
			Toluene	LT 2.50 -1	ug/g	CYT003

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20, Site 2-17

Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0028	4-5	Soil	Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYT003
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYW010
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CYW010
			Tetrachloroethene	LT 2.50 -1	ug/g	CYT003
			Trichloroethene	LT 5.40 -1	ug/g	CYT003
0029	0-1	Soil	Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYT003
			Aldrin	LT 1.90 -3	ug/g	CXX013
			Cadmium	LT 7.40 -1	ug/g	CXU018
			Chlordane	LT 2.30 -2	ug/g	CXX013
			Chromium	2.78 1	ug/g	CXU018
			Copper	3.35 1	ug/g	CXU018
			Dibromochloropropane	1.55 -2	ug/g	CXW010
			Dieldrin	LT 3.30 -3	ug/g	CXX013
			Endrin	LT 5.80 -3	ug/g	CXX013
			Isodrin	LT 1.10 -3	ug/g	CXX013
			Lead	6.40 1	ug/g	CXU018
			Dichlorodiphenylethane	1.36 -2	ug/g	CXX013
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CXX013
			Zinc	1.24 2	ug/g	CXU018
0029	2-3	Soil	Aldrin	LT 1.90 -3	ug/g	CXX014
			Cadmium	LT 7.40 -1	ug/g	CXU019
			Chlordane	LT 2.30 -2	ug/g	CXX014
			Chromium	9.06 0	ug/g	CXU019
			Copper	7.72 0	ug/g	CXU019
			Dibromochloropropane	7.39 -3	ug/g	CXW011
			Dieldrin	LT 3.30 -3	ug/g	CXX014
			Endrin	LT 5.80 -3	ug/g	CXX014
			Isodrin	LT 1.10 -3	ug/g	CXX014
			Lead	1.19 1	ug/g	CXU019
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CXX014
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CXX014

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0029	2-3	Soil	Zinc	3.00	1 ug/g	CXU019
0029	4-5	Soil	Aldrin	1.10	-2 ug/g	CXX015
			Cadmium	LT 7.40	-1 ug/g	CXU020
			Chlordane	LT 2.30	-2 ug/g	CXX015
			Chromium	1.54	1 ug/g	CXU020
			Copper	8.78	0 ug/g	CXU020
			Dibromochloropropane			
			Dieldrin	LT 5.00	-3 ug/g	CXW012
			Endrin	LT 3.30	-3 ug/g	CXX015
			Mercury	LT 5.80	-3 ug/g	CXX015
			Isodrin	LT 5.00	-2 ug/g	CXY012
				LT 1.10	-3 ug/g	CXX015
			Lead	2.60	1 ug/g	CXU020
			Dichlorodiphenylethane	LT 2.40	-3 ug/g	CXX015
			Dichlorodiphenyltrichloroethane	LT 2.00	-3 ug/g	CXX015
			Zinc	4.28	1 ug/g	CXU020
0030	0-1	Soil	Aldrin	1.23	-2 ug/g	CYW011
			Cadmium	LT 7.40	-1 ug/g	CYR008
			Chlordane	LT 2.30	-2 ug/g	CYW011
			Chromium	9.57	0 ug/g	CYR008
			Copper	1.96	1 ug/g	CYR008
			Dibromochloropropane			
			Dieldrin	LT 1.40	-2 ug/g	CYV011
			Endrin	6.10	-3 ug/g	CYW011
			Isodrin	6.86	-3 ug/g	CYW011
			Lead	LT 1.10	-3 ug/g	CYW011
				1.19	1 ug/g	CYR008
			Dichlorodiphenylethane			
			Dichlorodiphenyltrichloroethane	1.14	-2 ug/g	CYW011
			Zinc	3.71	-2 ug/g	CYW011
				3.58	1 ug/g	CYR008
0030	2-3	Soil	Aldrin	LT 2.18	-3 ug/g	CYW012
			Cadmium	LT 7.40	-1 ug/g	CYR009
			Chlordane	LT 2.30	-2 ug/g	CYW012

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0030	2-3	Soil	Chromium	9.63	0	ug/g
			Copper	7.08	0	ug/g
			Dibromochloropropane	LT	1.40 -2	ug/g
			Dieldrin	LT	3.30 -3	ug/g
			Endrin	LT	5.80 -3	ug/g
			Isodrin	LT	1.10 -3	ug/g
			Lead	LT	8.40 0	ug/g
			Dichlorodiphenylethane	LT	2.40 -3	ug/g
			Dichlorodiphenyltrichloro-ethane	LT	2.00 -3	ug/g
			Zinc	3.26	1	ug/g
						CYR009
						CYR009
0030	4-5	Soil	Aldrin	LT	1.90 -3	ug/g
			Cadmium	LT	7.40 -1	ug/g
			Chlordane	LT	2.30 -2	ug/g
			Chromium		2.23 1	ug/g
			Copper		2.64 1	ug/g
			Dibromochloropropane	LT	1.40 -2	ug/g
			Dieldrin	LT	3.30 -3	ug/g
			Endrin	LT	5.80 -3	ug/g
			Mercury	LT	5.00 -2	ug/g
			Isodrin	LT	1.10 -3	ug/g
						CYV013
						CYV013
0031	0-1	Soil	Lead	LT	8.40 0	ug/g
			Dichlorodiphenylethane	LT	2.40 -3	ug/g
			Dichlorodiphenyltrichloro-ethane	LT	2.00 -3	ug/g
			Zinc		8.23 1	ug/g
			1,1,1-Trichloroethane	LT	4.30 -1	ug/g
			1,1,2-Trichloroethane	LT	3.90 -1	ug/g
			1,1-Dichloroethane	LT	1.70 0	ug/g
			1,2-Dichloroethane	LT	1.70 0	ug/g
			1,2-Dichloroethane	LT	5.60 -1	ug/g
			m-Xylene	LT	7.40 -1	ug/g
			Bicycloheptadiene	LT	3.60 -1	ug/g
						CYT004

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0031	0-1	Soil	Benzene	LT 2.50 -1	ug/g	CYT004
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYT004
			Methylene Chloride	LT 1.50 0	ug/g	CYT004
			Chloroform	LT 2.90 -1	ug/g	CYT004
			Chlorobenzene	LT 1.50 0	ug/g	CYT004
			Dibromochloropropane	LT 2.40 0	ug/g	CYT004
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYT004
			Dimethyldisulfide	LT 2.00 1	ug/g	CYT004
			Ethylbenzene	LT 3.80 -1	ug/g	CYT004
			Toluene	LT 2.50 -1	ug/g	CYT004
0031	2-3	Soil	Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYT004
			Tetrachloroethene	LT 2.50 -1	ug/g	CYT004
			Trichloroethene	LT 5.40 -1	ug/g	CYT004
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYT004
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYT005
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYT005
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYT005
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYT005
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYT005
			m-Xylene	LT 7.40 -1	ug/g	CYT005
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYT005
			Benzene	LT 2.50 -1	ug/g	CYT005
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYT005
			Methylene Chloride	LT 1.50 0	ug/g	CYT005
			Chloroform	LT 2.90 -1	ug/g	CYT005
			Chlorobenzene	LT 1.50 0	ug/g	CYT005
			Dibromochloropropane	LT 2.40 0	ug/g	CYT005
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYT005
			Dimethyldisulfide	LT 2.00 1	ug/g	CYT005
			Ethylbenzene	LT 3.80 -1	ug/g	CYT005
			Toluene	LT 2.50 -1	ug/g	CYT005
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYT005
			Tetrachloroethene	LT 2.50 -1	ug/g	CYT005
			Trichloroethene	LT 5.40 -1	ug/g	CYT005

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0031	2-3	Soil	Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYT005
0031	4-5	Soil	1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYT006
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYT006
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYT006
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYT006
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYT006
			m-Xylene	LT 7.40 -1	ug/g	CYT006
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYT006
			Benzene	LT 2.50 -1	ug/g	CYT006
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYT006
			Methylene Chloride	LT 1.50 0	ug/g	CYT006
			Chloroform	LT 2.90 -1	ug/g	CYT006
			Chlorobenzene	LT 1.50 0	ug/g	CYT006
			Dibromochloropropane	LT 2.40 0	ug/g	CYT006
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYT006
			Dimethyldisulfide	LT 2.00 1	ug/g	CYT006
			Ethylbenzene	LT 3.80 -1	ug/g	CYT006
			Toluene	LT 2.50 -1	ug/g	CYT006
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYT006
			Tetrachloroethene	LT 2.50 -1	ug/g	CYT006
			Trichloroethene	LT 5.40 -1	ug/g	CYT006
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYT006
0032	0-1	Soil	1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYT007
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYT007
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYT007
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYT007
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYT007
			m-Xylene	LT 7.40 -1	ug/g	CYT007
			Aldrin	2.87 -3	ug/g	CYT014
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYT007
			Benzene	LT 2.50 -1	ug/g	CYT007
			Carbon Tetrachloride	LT 2.50 -1	ug/g	CYT007

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0032	0-1	Soil	Methylene Chloride	LT 1.50 0	ug/g	CYT007
			Chloroform	LT 2.90 -1	ug/g	CYT007
			Chlorobenzene	LT 1.50 0	ug/g	CYT007
			Chlordane	LT 2.30 -2	ug/g	CYMD14
			Dibromochloropropane	LT 2.40 0	ug/g	CYT007
			Dibromochloropropane	LT 1.40 -2	ug/g	CYMD14
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYT007
			Dieldrin	LT 3.30 -3	ug/g	CYMD14
			Dimethyldisulfide	LT 2.00 1	ug/g	CYT007
			Endrin	LT 5.80 -3	ug/g	CYMD14
			Ethylbenzene	LT 3.80 -1	ug/g	CYT007
			Isodrin	LT 1.10 -3	ug/g	CYMD14
			Toluene	LT 2.50 -1	ug/g	CYT007
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYT007
0032	2-3	Soil	Dichlorodiphenylethane	LT 7.65 -3	ug/g	CYMD14
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYMD14
			Tetrachloroethene	LT 2.50 -1	ug/g	CYT007
			Trichloroethene	LT 5.40 -1	ug/g	CYT007
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYT007
			1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYT008
			1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYT008
			1,1-Dichloroethane	LT 1.70 0	ug/g	CYT008
			1,2-Dichloroethane	LT 1.70 0	ug/g	CYT008
			1,2-Dichloroethane	LT 5.60 -1	ug/g	CYT008
			m-Xylene	LT 7.40 -1	ug/g	CYT008
			Aldrin	LT 1.90 -3	ug/g	CYMD15
			Bicycloheptadiene	LT 3.60 -1	ug/g	CYT008
			Benzene	LT 2.50 -1	ug/g	CYT008
0032	2-3	Soil	Carbon Tetrachloride	LT 2.50 -1	ug/g	CYT008
			Methylene Chloride	LT 1.50 0	ug/g	CYT008
			Chloroform	LT 2.90 -1	ug/g	CYT008
			Chlorobenzene	LT 1.50 0	ug/g	CYT008
			Chlordane	LT 2.30 -2	ug/g	CYMD15

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0032	2-3	Soil	Dibromochloropropane	LT 2.40 0	ug/g	CYT008
			Dibromochloropropane	LT 1.40 -2	ug/g	CYU015
			Dicyclopentadiene	LT 6.40 -1	ug/g	CYT008
			Dieldrin	LT 3.30 -3	ug/g	CYU015
			Dimethyldisulfide	LT 2.00 1	ug/g	CYT008
			Endrin	LT 5.80 -3	ug/g	CYU015
			Ethylbenzene	LT 3.80 -1	ug/g	CYT008
			Isodrin	LT 1.10 -3	ug/g	CYU015
			Toluene	LT 2.50 -1	ug/g	CYT008
			Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYT008
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYU015
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYU015
			Tetrachloroethene	LT 2.50 -1	ug/g	CYT008
			Trichloroethene	LT 5.40 -1	ug/g	CYT008
			Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYT008
0032	4-5	Soil	1,1,1-Trichloroethane	6.03 -1	ug/g	CYU005
			1,1,2-Trichloroethane	LT 3.00 -1	ug/g	CYU005
			1,1-Dichloroethane	LT 9.00 -1	ug/g	CYU005
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYU005
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYU005
			m-Xylene	LT 7.00 -1	ug/g	CYU005
			Aldrin	LT 1.90 -3	ug/g	CYU016
			Bicycloheptadiene	LT 3.00 -1	ug/g	CYU005
			Benzene	LT 3.00 -1	ug/g	CYU005
			Carbon Tetrachloride	LT 3.00 -1	ug/g	CYU005
			Methylene Chloride	LT 7.00 -1	ug/g	CYU005
			Chloroform	LT 3.00 -1	ug/g	CYU005
			Chlorobenzene	LT 3.00 -1	ug/g	CYU005
			Chlordane	LT 2.30 -2	ug/g	CYU016
			Dibromochloropropane	LT 4.00 -1	ug/g	CYU005
			Dibromochloropropane	LT 1.40 -2	ug/g	CYU016
			Dicyclopentadiene	LT 3.00 -1	ug/g	CYU005

Note: Results for some parameters may appear in more than one analytical fraction.

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0032	4-5	Soil	Dieldrin	LT 3.30 -3	ug/g	CYU016
			Dimethyldisulfide	LT 8.00 -1	ug/g	CYU005
			Endrin	LT 5.80 -3	ug/g	CYU016
			Ethylbenzene	LT 3.00 -1	ug/g	CYU005
			Mercury	LT 5.00 -2	ug/g	CYU017
			Isodrin	LT 1.10 -3	ug/g	CYU016
			Toluene	LT 3.00 -1	ug/g	CYU005
			Methylisobutyl Ketone	LT 3.00 -1	ug/g	CYU005
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYU016
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYU016
0033	0.3-1.3	Soil	Tetrachloroethene	LT 3.00 -1	ug/g	CYU005
			Trichloroethene	LT 3.00 -1	ug/g	CYU005
			Ortho- & Para-Xylene	LT 3.00 -1	ug/g	CYU005
			1,1,1-Trichloroethane	LT 3.00 -1	ug/g	CYL005
			1,1,2-Trichloroethane	LT 3.00 -1	ug/g	CYL005
			1,1-Dichloroethane	LT 9.00 -1	ug/g	CYL005
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYL005
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYL005
			m-Xylene	LT 7.00 -1	ug/g	CYL005
			Aldrin	LT 1.90 -3	ug/g	CXX016
			Bicycloheptadiene	LT 3.00 -1	ug/g	CYL005
			Benzene	LT 3.00 -1	ug/g	CYL005
			Carbon Tetrachloride	LT 3.00 -1	ug/g	CYL005
			Cadmium	LT 7.40 -1	ug/g	CYR005
			Methylene Chloride	1.78 0	ug/g	CYL005
			Chloroform	LT 3.00 -1	ug/g	CYL005
			Chlorobenzene	LT 3.00 -1	ug/g	CYL005
			Chlordane	LT 2.30 -2	ug/g	CXX016
			Chromium	1.65 1	ug/g	CYR005
			Copper	1.37 1	ug/g	CYR005
			Dibromochloropropane	LT 4.00 -1	ug/g	CYL005
			Dibromopentadiene	LT 3.00 -1	ug/g	CYL005
			Dieldrin	LT 3.30 -3	ug/g	CXX016

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladore and Lake Mary

Roring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0033	0.3-1.3	Soil	Dimethyldisulfide	LT 8.00 -1	ug/g	CYLO05
			Endrin	LT 5.80 -3	ug/g	CXX016
			Ethylbenzene	LT 3.00 -1	ug/g	CYLO05
			Isodrin	LT 1.10 -3	ug/g	CXX016
			Toluene	LT 3.00 -1	ug/g	CYLO05
			Methylisobutyl Ketone	LT 3.00 -1	ug/g	CYLO05
			Lead	1.91 1	ug/g	CYR005
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CXX016
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CXX016
			Tetrachloroethene	LT 3.00 -1	ug/g	CYLO05
0033	2-3	Soil	Trichloroethene	LT 3.00 -1	ug/g	CYLO05
			Ortho- & Para-Xylene	LT 3.00 -1	ug/g	CYLO05
			Zinc	5.02 1	ug/g	CYR005
			1,1,1-Trichloroethane	LT 3.00 -1	ug/g	CYLO06
			1,1,2-Trichloroethane	LT 3.00 -1	ug/g	CYLO06
			1,1-Dichloroethane	LT 9.00 -1	ug/g	CYLO06
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYLO06
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYLO06
			m-Xylene	LT 7.00 -1	ug/g	CYLO06
			Aldrin	LT 1.90 -3	ug/g	CYN005
0033	2-3	Soil	Bicycloheptadiene	LT 3.00 -1	ug/g	CYLO06
			Benzene	LT 3.00 -1	ug/g	CYLO06
			Carbon Tetrachloride	LT 3.00 -1	ug/g	CYLO06
			Cadmium	1.09 0	ug/g	CYR006
			Methylene Chloride	1.93 0	ug/g	CYLO06
			Chloroform	LT 3.00 -1	ug/g	CYLO06
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN005
			Chlorobenzene	LT 3.00 -1	ug/g	CYLO06
			Chlordane	LT 2.30 -2	ug/g	CYN005
			Chromium	1.19 1	ug/g	CYR006
0033	2-3	Soil	Copper	1.08 1	ug/g	CYR006
			Dibromochloropropane	LT 4.00 -1	ug/g	CYLO06
			Dicyclopentadiene	LT 3.00 -1	ug/g	CYLO06

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

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Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0033	2-3	Soil	Dieldrin	LT 3.30 -3	ug/g	CYN005
			Dimethyldisulfide	LT 8.00 -1	ug/g	CYL006
			Endrin	LT 5.80 -3	ug/g	CYN005
			Ethylbenzene	LT 3.00 -1	ug/g	CYL006
			Isodrin	LT 1.10 -3	ug/g	CYN005
			Toluene	LT 3.00 -1	ug/g	CYL006
			Methylisobutyl Ketone	LT 3.00 -1	ug/g	CYL006
			Lead	LT 8.40 0	ug/g	CYN005
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYN005
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN005
0033	3.4-4.4	Soil	Tetrachloroethene	LT 3.00 -1	ug/g	CYL006
			Trichloroethene	LT 3.00 -1	ug/g	CYL006
			Ortho- & Para-Xylene	LT 3.00 -1	ug/g	CYL006
			Zinc	3.90 1	ug/g	CYN005
			1,1,1-Trichloroethane	LT 3.00 -1	ug/g	CYL007
			1,1,2-Trichloroethane	LT 3.00 -1	ug/g	CYL007
			1,1-Dichloroethane	LT 9.00 -1	ug/g	CYL007
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYL007
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYL007
			m-Xylene	LT 7.00 -1	ug/g	CYL007
			Aldrin	LT 1.90 -3	ug/g	CYN006
			Bicycloheptadiene	LT 3.00 -1	ug/g	CYL007
			Benzene	LT 3.00 -1	ug/g	CYL007
			Carbon Tetrachloride	LT 3.00 -1	ug/g	CYL007
			Cadmium	LT 7.40 -1	ug/g	CYN007
			Methylene Chloride	2.09 0	ug/g	CYL007
			Chloroform	LT 3.00 -1	ug/g	CYL007
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN006
			Chlorobenzene	LT 3.00 -1	ug/g	CYL007
			Chlordane	LT 2.30 -2	ug/g	CYN006
			Chromium	1.52 1	ug/g	CYN007
			Copper	1.35 1	ug/g	CYN007
			Dibromochloropropane	LT 4.00 -1	ug/g	CYL007

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0033	3.4-4.4	Soil	Dicyclopentadiene	LT 3.00 -1	ug/g	CYL007
			Dieldrin	LT 3.30 -3	ug/g	CYN006
			Dimethyldisulfide	LT 8.00 -1	ug/g	CYL007
			Endrin	LT 5.80 -3	ug/g	CYN006
			Ethylbenzene	LT 3.00 -1	ug/g	CYL007
			Mercury	LT 5.00 -2	ug/g	CXY013
			Isodrin	LT 1.10 -3	ug/g	CYN006
			Toluene	LT 3.00 -1	ug/g	CYL007
			Methylisobutyl Ketone	LT 3.00 -1	ug/g	CYL007
			Lead	1.31 1	ug/g	CYR007
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYN006
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN006
			Tetrachloroethene	LT 3.00 -1	ug/g	CYL007
			Trichloroethene	LT 3.00 -1	ug/g	CYL007
0034	0-1	Soil	Ortho- & Para-Xylene	LT 3.00 -1	ug/g	CYL007
			Zinc	5.20 1	ug/g	CYR007
			1,1,1-Trichloroethane	LT 3.00 -1	ug/g	CYU002
			1,1,2-Trichloroethane	LT 3.00 -1	ug/g	CYU002
			1,1-Dichloroethane	LT 9.00 -1	ug/g	CYU002
			1,2-Dichloroethane	LT 3.00 -1	ug/g	CYU002
			m-Xylene	LT 7.00 -1	ug/g	CYU002
			Aldrin	LT 1.90 -3	ug/g	CYX008
			Bicycloheptadiene	LT 3.00 -1	ug/g	CYU002
			Benzene	LT 3.00 -1	ug/g	CYU002
			Carbon Tetrachloride	LT 3.00 -1	ug/g	CYU002
			Cadmium	LT 7.40 -1	ug/g	CYR011
			Methylene Chloride	LT 7.00 -1	ug/g	CYU002
			Chloroform	LT 3.00 -1	ug/g	CYU002
			Chlorobenzene	LT 3.00 -1	ug/g	CYU002
			Chlorodane	LT 2.30 -2	ug/g	CYX008
			Chromium	1.78 1	ug/g	CYR011

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0034	0-1	Soil	Copper	1.93	1	CYR011
			Dibromochloropropane	LT 4.00	-1	CYU002
			Dicyclopentadiene	LT 3.00	-1	CYU002
			Dieldrin	LT 3.30	-3	CYX008
			Dimethyldisulfide	LT 8.00	-1	CYU002
			Endrin	LT 5.80	-3	CYX008
			Ethylbenzene	LT 3.00	-1	CYU002
			Isodrin	LT 1.10	-3	CYX008
			Toluene	LT 3.00	-1	CYU002
			Methylisobutyl Ketone	LT 3.00	-1	CYU002
			Lead	2.09	1	CYR011
			Dichlorodiphenylethane	LT 2.40	-3	CYX008
			Dichlorodiphenyltrichloroethane	LT 2.00	-3	CYX008
			Tetrachloroethene	LT 3.00	-1	CYU002
0034	2-3	Soil	Trichloroethene	LT 3.00	-1	CYU002
			Ortho- & Para-Xylene	LT 3.00	-1	CYU002
			Zinc	7.57	1	CYR011
			1,1,1-Trichloroethane	LT 3.00	-1	CYU003
			1,1,2-Trichloroethane	LT 3.00	-1	CYU003
			1,1-Dichloroethane	LT 9.00	-1	CYU003
			1,2-Dichloroethane	LT 3.00	-1	CYU003
			1,2-Dichloroethane	LT 3.00	-1	CYU003
			m-Xylene	LT 7.00	-1	CYU003
			Aldrin	LT 1.90	-3	CYX009
			Bicycloheptadiene	LT 3.00	-1	CYU003
			Benzene	LT 3.00	-1	CYU003
			Carbon Tetrachloride	LT 3.00	-1	CYU003
			Cadmium	LT 7.40	-1	CYR012
			Methylene Chloride	LT 7.00	-1	CYU003
			Chloroform	LT 3.00	-1	CYU003
			Chlorobenzene	LT 3.00	-1	CYU003
			Chlordane	LT 2.30	-2	CYX009

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20, Site 2-17

Lake Ladore and Lake Mary

Roring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0034	2-3	Soil	Chromium	LT 6.50	0 ug/g	CYR012
			Copper	LT 4.70	0 ug/g	CYR012
			Dibromochloropropane	LT 4.00	-1 ug/g	CYU003
			Dicyclopentadiene	LT 3.00	-1 ug/g	CYU003
			Dieldrin	LT 3.30	-3 ug/g	CYX009
			Dimethyldisulfide	LT 8.00	-1 ug/g	CYU003
			Endrin	LT 5.80	-3 ug/g	CYX009
			Ethylbenzene	LT 3.00	-1 ug/g	CYU003
			Isodrin	LT 1.10	-3 ug/g	CYX009
			Toluene	LT 3.00	-1 ug/g	CYU003
			Methylisobutyl Ketone	LT 3.00	-1 ug/g	CYU003
			Lead	LT 8.40	0 ug/g	CYR012
			Dichlorodiphenylethane	LT 2.40	-3 ug/g	CYX009
			Dichlorodiphenyltrichloroethane	LT 2.00	-3 ug/g	CYX009
			Tetrachloroethene	LT 3.00	-1 ug/g	CYU003
			Trichloroethene	LT 3.00	-1 ug/g	CYU003
			Ortho- & Para-Xylene	LT 3.00	-1 ug/g	CYU003
			Zinc	2.67	1 ug/g	CYR012
0034	3.3-4.3	Soil	1,1,1-Trichloroethane	LT 3.00	-1 ug/g	CYU004
			1,1,2-Trichloroethane	LT 3.00	-1 ug/g	CYU004
			1,1-Dichloroethane	LT 9.00	-1 ug/g	CYU004
			1,2-Dichloroethane	LT 3.00	-1 ug/g	CYU004
			1,2-Dichloroethane	LT 3.00	-1 ug/g	CYU004
			m-Xylene	LT 7.00	-1 ug/g	CYU004
			Aldrin	LT 1.90	-3 ug/g	CYX010
			Bicycloheptadiene	LT 3.00	-1 ug/g	CYU004
			Benzene	LT 3.00	-1 ug/g	CYU004
			Carbon Tetrachloride	LT 3.00	-1 ug/g	CYU004
			Cadmium	LT 7.40	-1 ug/g	CYR013
			Methylene Chloride	LT 7.00	-1 ug/g	CYU004
			Chloroform	LT 3.00	-1 ug/g	CYU004
			Chlorobenzene	LT 3.00	-1 ug/g	CYU004
			Chlordane	LT 2.30	-2 ug/g	CYX010

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results Task 20 , Site 2-17 Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0034	3.3-4.3	Soil	Chromium	8.95	0	ug/g
			Copper	8.65	0	ug/g
			Dibromochloropropane	LT	4.00 -1	ug/g
			Dicyclopentadiene	LT	3.00 -1	ug/g
			Dieldrin	LT	3.30 -3	ug/g
			Dimethyldisulfide	LT	8.00 -1	ug/g
			Endrin	LT	5.80 -3	ug/g
			Ethylbenzene	LT	3.00 -1	ug/g
			Mercury	LT	5.00 -2	ug/g
			Isodrin	LT	1.10 -3	ug/g
			Toluene	LT	3.00 -1	ug/g
			Methylisobutyl Ketone	LT	3.00 -1	ug/g
			Lead	LT	8.40 0	ug/g
			Dichlorodiphenylethane	LT	2.40 -3	ug/g
0035	0-1	Soil	Dichlorodiphenyltrichloro-ethane	LT	2.00 -3	ug/g
			Tetrachloroethene	LT	3.00 -1	ug/g
			Trichloroethene	LT	3.00 -1	ug/g
			Ortho- & Para-Xylene	LT	3.26 1	ug/g
			Zinc	LT	1.90 -3	ug/g
			Aldrin	LT	2.30 -2	ug/g
			Chlordane	LT	3.30 -3	ug/g
			Dieldrin	LT	5.80 -3	ug/g
			Endrin	LT	1.10 -3	ug/g
			Isodrin	LT	2.40 -3	ug/g
			Dichlorodiphenylethane	LT	2.00 -3	ug/g
			Dichlorodiphenyltrichloro-ethane	LT	2.00 -3	ug/g
			Aldrin	LT	1.90 -3	ug/g
			Chlordane	LT	2.30 -2	ug/g
0035	2-3	Soil	Dieldrin	LT	3.30 -3	ug/g
			Endrin	LT	5.80 -3	ug/g
			Isodrin	LT	1.10 -3	ug/g
			Dieldrin	LT	1.90 -3	ug/g
			Endrin	LT	2.30 -2	ug/g

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20, Site 2-17

Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0035	2-3	Soil	Dichlorodiphenylethane Dichlorodiphenyltrichloro- ethane	LT 2.40 -3	ug/g	CYX012
				LT 2.00 -3	ug/g	CYX012
0035	3.2-4.2	Soil	Aldrin Chlordane Dieldrin Endrin Mercury	LT 1.90 -3	ug/g	CYX013
				LT 2.30 -2	ug/g	CYX013
				LT 3.30 -3	ug/g	CYX013
				LT 5.80 -3	ug/g	CYX013
				LT 5.00 -2	ug/g	CYX019
				LT 1.10 -3	ug/g	CYX013
0036	0-1	Soil	Isodrin Dichlorodiphenylethane Dichlorodiphenyltrichloro- ethane	LT 2.40 -3	ug/g	CYX013
				LT 2.00 -3	ug/g	CYX013
				LT 1.90 -3	ug/g	CYX014
				LT 2.50 0	ug/g	CZC005
				LT 7.40 -1	ug/g	CYR014
				LT 2.30 -2	ug/g	CYX014
				LT 6.50 0	ug/g	CYR014
				7.11 0	ug/g	CYR014
				LT 3.30 -3	ug/g	CYX014
				LT 5.80 -3	ug/g	CYX014
0036	2-3	Soil	Isodrin Lead Dichlorodiphenylethane Dichlorodiphenyltrichloro- ethane Zinc Aldrin Arsenic Cadmium Chlordane Chromium Copper Dieldrin	LT 1.10 -3	ug/g	CYX014
				LT 8.40 0	ug/g	CYR014
				LT 2.40 -3	ug/g	CYX014
				LT 2.00 -3	ug/g	CYX014
				2.88 1	ug/g	CYR014
				LT 1.90 -3	ug/g	CYX015
				LT 7.50 0	ug/g	CZC006
				LT 7.40 -1	ug/g	CYR015
				LT 2.30 -2	ug/g	CYX015
				1.57 1	ug/g	CYR015
				1.21 1	ug/g	CYR015
				LT 3.30 -3	ug/g	CYX015

Note: Results for some parameters may appear in more than one analytical fraction.

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Task 20 , Site 2-17 Lake Ladora and Lake Mary

Phase II Analytical Results

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0036	2-3	Soil	Endrin	LT 5.80 -3	ug/g	CYX015
			Isodrin	LT 1.10 -3	ug/g	CYX015
			Lead	LT 8.40 0	ug/g	CYR015
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYX015
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYX015
0036	4-5	Soil	Zinc	5.38 1	ug/g	CYR015
			Aldrin	LT 1.90 -3	ug/g	CYX016
			Arsenic	5.19 0	ug/g	CZC007
			Cadmium	LT 7.40 -1	ug/g	CYR016
			Chlordane	LT 2.30 -2	ug/g	CYX016
			Chromium	LT 6.50 0	ug/g	CYR016
			Copper	7.58 0	ug/g	CYR016
			Dieldrin	LT 3.30 -3	ug/g	CYX016
			Endrin	LT 5.80 -3	ug/g	CYX016
			Mercury	LT 5.00 -2	ug/g	CXY020
			Isodrin	LT 1.10 -3	ug/g	CYX016
			Lead	LT 8.40 0	ug/g	CYR016
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYX016
0037	0-1	Soil	Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYX016
			Zinc	2.85 1	ug/g	CYR016
			Aldrin	LT 1.90 -3	ug/g	CZB005
			Arsenic	3.13 0	ug/g	CZC008
			Cadmium	LT 7.40 -1	ug/g	CYR017
			Chlordane	LT 2.30 -2	ug/g	CZB005
			Chromium	LT 6.50 0	ug/g	CYR017
			Copper	LT 4.70 0	ug/g	CYR017
			Dieldrin	LT 3.30 -3	ug/g	CZB005
			Endrin	LT 5.80 -3	ug/g	CZB005
			Isodrin	LT 1.10 -3	ug/g	CZB005
			Lead	LT 8.40 0	ug/g	CYR017
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZB005

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20, Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0037	0-1	Soil	Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8005
			Zinc	2.23 1	ug/g	CYR017
0037	2-3	Soil	Aldrin	LT 1.90 -3	ug/g	CZ8006
			Arsenic	LT 2.50 0	ug/g	CZC009
			Cadmium	LT 7.40 -1	ug/g	CYR018
			Chlordane	LT 2.30 -2	ug/g	CZ8006
			Chromium	LT 6.50 0	ug/g	CYR018
			Copper	LT 4.70 0	ug/g	CYR018
			Dieldrin	LT 3.30 -3	ug/g	CZ8006
			Endrin	LT 5.80 -3	ug/g	CZ8006
			Isodrin	LT 1.10 -3	ug/g	CZ8006
			Lead	LT 8.40 0	ug/g	CYR018
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ8006
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8006
0037	4-5	Soil	Zinc	2.65 1	ug/g	CYR018
			Aldrin	LT 1.90 -3	ug/g	CZ8007
			Arsenic	LT 2.50 0	ug/g	CZC010
			Cadmium	LT 7.40 -1	ug/g	CYR019
			Chlordane	LT 2.30 -2	ug/g	CZ8007
			Chromium	1.65 1	ug/g	CYR019
			Copper	7.65 0	ug/g	CYR019
			Dieldrin	LT 3.30 -3	ug/g	CZ8007
			Endrin	LT 5.80 -3	ug/g	CZ8007
			Mercury	LT 5.00 -2	ug/g	CZD005
			Isodrin	LT 1.10 -3	ug/g	CZ8007
			Lead	LT 8.40 0	ug/g	CYR019
0038	0-1	Soil	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ8007
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8007
			Zinc	5.16 1	ug/g	CYR019
			Aldrin	4.71 -2	ug/g	CZG005

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17 Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0038	0-1	Soil	Chlordane	LT 2.30 -2	ug/g	CZG005
			Dieldrin	LT 3.30 -3	ug/g	CZG005
			Endrin	LT 5.80 -3	ug/g	CZG005
			Isodrin	LT 1.10 -3	ug/g	CZG005
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZG005
0038	2-3	Soil	Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZG005
			Aldrin	LT 1.90 -3	ug/g	CZG006
			Chlordane	LT 2.30 -2	ug/g	CZG006
			Dieldrin	LT 3.30 -3	ug/g	CZG006
			Endrin	LT 5.80 -3	ug/g	CZG006
0038	4-5	Soil	Isodrin	LT 1.10 -3	ug/g	CZG006
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZG006
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZG006
			Aldrin	LT 1.90 -3	ug/g	CZG007
			Chlordane	LT 2.30 -2	ug/g	CZG007
0039	0-1	Soil	Dieldrin	LT 3.30 -3	ug/g	CZG007
			Endrin	LT 5.80 -3	ug/g	CZG007
			Mercury	LT 5.00 -2	ug/g	CZD009
			Isodrin	LT 1.10 -3	ug/g	CZG007
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZG007
0039	2-3	Soil	Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZG007
			Aldrin	LT 1.90 -3	ug/g	CZG008
			Chlordane	LT 2.30 -2	ug/g	CZG008
			Dieldrin	LT 3.30 -3	ug/g	CZG008
			Endrin	LT 5.80 -3	ug/g	CZG008
0039	2-3	Soil	Isodrin	LT 1.10 -3	ug/g	CZG008
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZG008
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZG008
			Aldrin	LT 1.90 -3	ug/g	CZG009

Note: Results for some parameters may appear in more than one analytical fraction.

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Task 20 , Site 2-17 Lake Ladona and Lake Mary

Phase II Analytical Results

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0039	2-3	Soil	Chlordane	LT 2.30 -2	ug/g	CZ6009
			Dieldrin	LT 3.30 -3	ug/g	CZ6009
			Endrin	LT 5.80 -3	ug/g	CZ6009
			Isodrin	LT 1.10 -3	ug/g	CZ6009
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ6009
0039	4-5	Soil	Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ6009
			Aldrin	LT 1.90 -3	ug/g	CZ6010
			Chlordane	LT 2.30 -2	ug/g	CZ6010
			Dieldrin	LT 3.30 -3	ug/g	CZ6010
			Endrin	LT 5.80 -3	ug/g	CZ6010
0040	0-1	Soil	Mercury	LT 5.00 -2	ug/g	CZ6010
			Isodrin	LT 1.10 -3	ug/g	CZ6010
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ6010
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ6010
			Aldrin	LT 1.90 -3	ug/g	CZ6008
0040	2-3	Soil	Chlordane	LT 2.30 -2	ug/g	CZ6008
			Dieldrin	LT 3.30 -3	ug/g	CZ6008
			Endrin	LT 5.80 -3	ug/g	CZ6008
			Isodrin	LT 1.10 -3	ug/g	CZ6008
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ6008
0040	4-5	Soil	Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ6008
			Aldrin	LT 1.90 -3	ug/g	CZ6009
			Chlordane	LT 2.30 -2	ug/g	CZ6009
			Dieldrin	LT 3.30 -3	ug/g	CZ6009
			Endrin	LT 5.80 -3	ug/g	CZ6009
0040	4-5	Soil	Isodrin	LT 1.10 -3	ug/g	CZ6009
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ6009
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ6009
			Aldrin	LT 1.90 -3	ug/g	CZ6010
			Chlordane	LT 2.30 -2	ug/g	CZ6010

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results Task 20, Site 2-17 Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0040	4-5	Soil	Chlordane	LT 2.30 -2	ug/g	CZ8010
			Dieldrin	LT 3.30 -3	ug/g	CZ8010
			Endrin	LT 5.80 -3	ug/g	CZ8010
			Mercury	LT 5.00 -2	ug/g	CZD006
			Isodrin	LT 1.10 -3	ug/g	CZ8010
0041	0-1	Soil	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ8010
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8010
			Aldrin	1.70 0	ug/g	CZ8011
			Chlordane	LT 2.30 -2	ug/g	CZ8011
			Endrin	LT 5.80 -3	ug/g	CZ8011
0041	2-3	Soil	Isodrin	4.20 -2	ug/g	CZ8011
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ8011
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8011
			Aldrin	LT 1.90 -3	ug/g	CZ8012
			Chlordane	LT 2.30 -2	ug/g	CZ8012
0041	4-5	Soil	Dieldrin	LT 3.30 -3	ug/g	CZ8012
			Endrin	LT 5.80 -3	ug/g	CZ8012
			Isodrin	LT 1.10 -3	ug/g	CZ8012
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ8012
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8012
0041	4-5	Soil	Aldrin	LT 1.90 -3	ug/g	CZ8013
			Chlordane	LT 2.30 -2	ug/g	CZ8013
			Dieldrin	LT 3.30 -3	ug/g	CZ8013
			Endrin	LT 5.80 -3	ug/g	CZ8013
			Mercury	LT 5.00 -2	ug/g	CZD007
0041	4-5	Soil	Isodrin	LT 1.10 -3	ug/g	CZ8013
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ8013
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8013

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20, Site 2-17

Lake Ladoga and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0042	0-1	Soil	Aldrin	7.06 -3	ug/g	CZ8014
			Chlordane	LT 2.30 -2	ug/g	CZ8014
			Dieldrin	LT 3.30 -3	ug/g	CZ8014
			Endrin	LT 5.80 -3	ug/g	CZ8014
			Isodrin	3.70 -2	ug/g	CZ8014
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ8014
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8014
0042	2-3	Soil	Aldrin	1.98 -2	ug/g	CZ8015
			Chlordane	LT 2.30 -2	ug/g	CZ8015
			Dieldrin	LT 3.30 -3	ug/g	CZ8015
			Endrin	LT 5.80 -3	ug/g	CZ8015
			Isodrin	LT 1.10 -3	ug/g	CZ8015
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ8015
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8015
0042	4-5	Soil	Aldrin	LT 1.90 -3	ug/g	CZ8016
			Chlordane	LT 2.30 -2	ug/g	CZ8016
			Dieldrin	LT 3.30 -3	ug/g	CZ8016
			Endrin	LT 5.80 -3	ug/g	CZ8016
			Mercury	LT 5.00 -2	ug/g	CZD008
			Isodrin	LT 1.10 -3	ug/g	CZ8016
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ8016
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8016
0043	0-1	Soil	Aldrin	LT 1.90 -3	ug/g	CZ8011
			Chlordane	LT 2.30 -2	ug/g	CZ8011
			Dieldrin	LT 3.30 -3	ug/g	CZ8011
			Endrin	LT 5.80 -3	ug/g	CZ8011
			Isodrin	LT 1.10 -3	ug/g	CZ8011
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ8011
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ8011

Note: Results for some parameters may appear in more than one analytical fraction.

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Rocky Mountain Arsenal Program

Ebasco Services Incorporated

Task 20 , Site 2-17 Lake Ladore and Lake Mary

Phase II Analytical Results

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0043	2-3	Soil	Aldrin	LT 1.90 -3	ug/g	CZ6012
			Chlordane	LT 2.30 -2	ug/g	CZ6012
			Dieldrin	LT 3.30 -3	ug/g	CZ6012
			Endrin	LT 5.80 -3	ug/g	CZ6012
			Isodrin	LT 1.10 -3	ug/g	CZ6012
0043	4-5	Soil	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ6012
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ6012
			Aldrin	LT 1.90 -3	ug/g	CZ6013
			Chlordane	LT 2.30 -2	ug/g	CZ6013
			Dieldrin	LT 3.30 -3	ug/g	CZ6013
			Endrin	LT 5.80 -3	ug/g	CZ6013
			Mercury	LT 5.00 -2	ug/g	CZ0011
			Isodrin	LT 1.10 -3	ug/g	CZ6013
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ6013
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ6013
0044	0-1	Soil	Aldrin	LT 1.90 -3	ug/g	CZ6014
			Chlordane	LT 2.30 -2	ug/g	CZ6014
			Dieldrin	LT 3.30 -3	ug/g	CZ6014
			Endrin	LT 5.80 -3	ug/g	CZ6014
			Isodrin	LT 1.10 -3	ug/g	CZ6014
0044	2-3	Soil	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ6014
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ6014
			Aldrin	LT 1.90 -3	ug/g	CZ6015
			Chlordane	LT 2.30 -2	ug/g	CZ6015
			Dieldrin	LT 3.30 -3	ug/g	CZ6015
			Endrin	LT 5.80 -3	ug/g	CZ6015
			Isodrin	LT 1.10 -3	ug/g	CZ6015
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ6015
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ6015

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20, Site 2-17 Lake Ladona and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0044	4-5	Soil	Aldrin	LT 1.90 -3	ug/g	CZG016
			Chlordane	LT 2.30 -2	ug/g	CZG016
			Dieldrin	LT 3.30 -3	ug/g	CZG016
			Endrin	LT 5.80 -3	ug/g	CZG016
			Mercury	LT 5.00 -2	ug/g	CZD012
			Isodrin	LT 1.10 -3	ug/g	CZG016
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZG016
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CZG016
			Aldrin	4.85 -3	ug/g	CZND005
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CZND005
0045	0-1	Soil	Chlordane	LT 2.30 -2	ug/g	CZND005
			Dieldrin	LT 3.30 -3	ug/g	CZND005
			Endrin	LT 5.80 -3	ug/g	CZND005
			Mercury	LT 5.00 -2	ug/g	CZD013
			Isodrin	LT 1.10 -3	ug/g	CZND005
			Dichlorodiphenylethane	8.17 -3	ug/g	CZND005
			Dichlorodiphenyltrichloroethane	1.53 -2	ug/g	CZND005
			Aldrin	LT 1.90 -3	ug/g	CZND006
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CZND006
			Chlordane	LT 2.30 -2	ug/g	CZND006
0045	2-3	Soil	Dieldrin	LT 3.30 -3	ug/g	CZND006
			Endrin	LT 5.80 -3	ug/g	CZND006
			Mercury	LT 5.00 -2	ug/g	CZD014
			Isodrin	LT 1.10 -3	ug/g	CZND006
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZND006
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CZND006
			Aldrin	LT 1.90 -3	ug/g	CZND007
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CZND007
			Chlordane	LT 2.30 -2	ug/g	CZND007
			Dieldrin	LT 3.30 -3	ug/g	CZND007

Note: Results for some parameters may appear in more than one analytical fraction.

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Task 20, Site 2-17 Lake Ladore and Lake Mary

Phase II Analytical Results

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0045	4-5	Soil	Endrin	LT 5.80 -3	ug/g	CZND007
			Mercury	LT 5.00 -2	ug/g	CZD015
			Isodrin	LT 1.10 -3	ug/g	CZND007
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZND007
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZND007
0046	0-1	Soil	Aldrin	LT 1.90 -3	ug/g	CZND008
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CZND008
			Chlordane	LT 2.30 -2	ug/g	CZND008
			Dieldrin	LT 3.30 -3	ug/g	CZND008
			Endrin	LT 5.80 -3	ug/g	CZND008
			Mercury	LT 5.00 -2	ug/g	CZD016
			Isodrin	LT 1.10 -3	ug/g	CZND008
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZND008
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZND008
0046	2-3	Soil	Aldrin	LT 1.90 -3	ug/g	CZND009
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CZND009
			Chlordane	LT 2.30 -2	ug/g	CZND009
			Dieldrin	LT 3.30 -3	ug/g	CZND009
			Endrin	LT 5.80 -3	ug/g	CZND009
			Mercury	LT 5.00 -2	ug/g	CZD017
			Isodrin	LT 1.10 -3	ug/g	CZND009
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZND009
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZND009
0046	4-5	Soil	Aldrin	LT 1.90 -3	ug/g	CZND010
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CZND010
			Chlordane	LT 2.30 -2	ug/g	CZND010
			Dieldrin	LT 3.30 -3	ug/g	CZND010
			Endrin	LT 5.80 -3	ug/g	CZND010
			Mercury	LT 5.00 -2	ug/g	CZD018
			Isodrin	LT 1.10 -3	ug/g	CZND010

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0046	4-5	Soil	Dichlorodiphenylethane Dichlorodiphenyltrichloro- ethane	LT 2.40 -3 LT 2.00 -3	ug/g ug/g	CZND10 CZND10
0047	0-1	Soil	Aldrin Hexachlorocyclopentadiene Chlordane Dieldrin Endrin	LT 1.90 -3 LT 1.80 -3 LT 2.30 -2 LT 3.30 -3 LT 5.80 -3	ug/g ug/g ug/g ug/g ug/g	CZND11 CZND11 CZND11 CZND11 CZND11
			Mercury Isodrin	LT 5.00 -2 LT 1.10 -3	ug/g ug/g	CZND19 CZND11
			Dichlorodiphenylethane Dichlorodiphenyltrichloro- ethane	LT 2.40 -3 LT 2.00 -3	ug/g ug/g	CZND11 CZND11
0047	2-3	Soil	Aldrin Hexachlorocyclopentadiene Chlordane Dieldrin Endrin	LT 1.90 -3 LT 1.80 -3 LT 2.30 -2 LT 3.30 -3 LT 5.80 -3	ug/g ug/g ug/g ug/g ug/g	CZND12 CZND12 CZND12 CZND12 CZND12
			Mercury Isodrin	LT 5.00 -2 LT 1.10 -3	ug/g ug/g	CZND20 CZND12
			Dichlorodiphenylethane Dichlorodiphenyltrichloro- ethane	LT 2.40 -3 LT 2.00 -3	ug/g ug/g	CZND12 CZND12
0047	4-5	Soil	Aldrin Hexachlorocyclopentadiene Chlordane Dieldrin Endrin	LT 1.90 -3 LT 1.80 -3 LT 2.30 -2 LT 3.30 -3 LT 5.80 -3	ug/g ug/g ug/g ug/g ug/g	CZND13 CZND13 CZND13 CZND13 CZND13
			Mercury Isodrin	LT 5.00 -2 LT 1.10 -3	ug/g ug/g	CZND05 CZND13
			Dichlorodiphenylethane Dichlorodiphenyltrichloro- ethane	LT 2.40 -3 LT 2.00 -3	ug/g ug/g	CZND13 CZND13
0048	0-1	Soil	Aldrin	LT 1.90 -3	ug/g	CZND14

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17 Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0048	0-1	Soil	Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CZND14
			Chlordane	LT 2.30 -2	ug/g	CZND14
			Dieldrin	LT 3.30 -3	ug/g	CZND14
			Endrin	LT 5.80 -3	ug/g	CZND14
			Mercury	LT 5.00 -2	ug/g	CZND06
0048	2-3	Soil	Isodrin	LT 1.10 -3	ug/g	CZND14
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZND14
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZND14
			Aldrin	LT 1.90 -3	ug/g	CZND15
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CZND15
			Chlordane	LT 2.30 -2	ug/g	CZND15
			Dieldrin	LT 3.30 -3	ug/g	CZND15
			Endrin	LT 5.80 -3	ug/g	CZND15
			Mercury	LT 5.00 -2	ug/g	CZND07
			Isodrin	LT 1.10 -3	ug/g	CZND15
0048	4-5	Soil	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZND15
			Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZND15
			Aldrin	LT 1.90 -3	ug/g	CZND16
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CZND16
			Chlordane	LT 2.30 -2	ug/g	CZND16
			Dieldrin	LT 3.30 -3	ug/g	CZND16
			Endrin	LT 5.80 -3	ug/g	CZND16
			Mercury	LT 5.00 -2	ug/g	CZND08
			Isodrin	LT 1.10 -3	ug/g	CZND16
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZND16
0049	0-1	Soil	Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZND16
			Aldrin	LT 1.90 -3	ug/g	CZND05
			Chlordane	LT 3.19 -2	ug/g	CZND05
			Dieldrin	LT 3.30 -3	ug/g	CZND05
			Endrin	LT 6.79 -3	ug/g	CZND05
			Mercury	LT 5.00 -2	ug/g	CZND09

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0049	0-1	Soil	Isodrin	LT 1.10 -3	ug/g	CZ0005
			Dichlorodiphenylethane	6.22 -3	ug/g	CZ0005
			Dichlorodiphenyltrichloroethane	LT 3.04 -3	ug/g	CZ0005
0049	2-3	Soil	Aldrin	LT 1.90 -3	ug/g	CZ0006
			Chlordane	LT 2.30 -2	ug/g	CZ0006
			Dieldrin	LT 3.30 -3	ug/g	CZ0006
			Endrin	LT 5.80 -3	ug/g	CZ0006
			Mercury	LT 5.00 -2	ug/g	CZM010
0049	4-5	Soil	Isodrin	LT 1.10 -3	ug/g	CZ0006
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ0006
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CZ0006
			Aldrin	LT 1.90 -3	ug/g	CZ0007
			Chlordane	LT 2.30 -2	ug/g	CZ0007
0050	0-1	Soil	Dieldrin	LT 3.30 -3	ug/g	CZ0007
			Endrin	LT 5.80 -3	ug/g	CZ0007
			Mercury	LT 5.00 -2	ug/g	CZM011
			Isodrin	LT 1.10 -3	ug/g	CZ0007
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ0007
0050	0-1	Soil	Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CZ0007
			1,1,1-Trichloroethane	LT 8.80 -2	ug/g	CY0005
			1,1,2-Trichloroethane	LT 2.60 -1	ug/g	CY0005
			1,1-Dichloroethane	LT 2.40 -1	ug/g	CY0005
			1,1-Dichloroethane	LT 7.40 -2	ug/g	CY0005
			1,2-Dichloroethane	LT 2.60 -1	ug/g	CY0005
			1,2-Dichloroethane	LT 8.50 -2	ug/g	CY0005
			Aldrin	LT 1.90 -3	ug/g	CYN007
			Bicycloheptadiene	LT 1.10 0	ug/g	CYP005
			Carbon Tetrachloride	LT 1.20 -1	ug/g	CY0005
			Methylene Chloride	LT 3.70 0	ug/g	CY0005
			Chloroform	LT 6.80 -2	ug/g	CY0005

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Task 20 , Site 2-17 Lake Ladore and Lake Mary

Phase II Analytical Results

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0050	0-1	Soil	Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN007
			Chlorobenzene	LT 2.00 -1	ug/g	CYN005
			Chlordane	LT 2.30 -2	ug/g	CYN007
			Dicyclopentadiene	LT 4.50 -1	ug/g	CYP005
			Dieldrin	LT 3.30 -3	ug/g	CYN007
			Endrin	LT 5.80 -3	ug/g	CYN007
			Isodrin	4.22 -3	ug/g	CYN007
			Methylisobutyl Ketone	LT 6.40 -1	ug/g	CYP005
			Dichlorodiphenylethane	2.36 -2	ug/g	CYN007
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN007
			Tetrachloroethene	LT 2.70 -1	ug/g	CYN005
			Trichloroethene	LT 1.40 -1	ug/g	CYN005
			1,1,1-Trichloroethane	LT 8.80 -2	ug/g	CYN006
			1,1,2-Trichloroethane	LT 2.60 -1	ug/g	CYN006
0050	2-3	Soil	1,1-Dichloroethane	LT 2.40 -1	ug/g	CYN006
			1,1-Dichloroethane	LT 7.40 -2	ug/g	CYN006
			1,2-Dichloroethane	LT 2.60 -1	ug/g	CYN006
			1,2-Dichloroethane	LT 8.50 -2	ug/g	CYN006
			Aldrin	LT 1.90 -3	ug/g	CYN008
			Bicycloheptadiene	LT 1.10 0	ug/g	CYP006
			Carbon Tetrachloride	LT 1.20 -1	ug/g	CYN006
			Methylene Chloride	LT 3.70 0	ug/g	CYN006
			Chloroform	LT 6.80 -2	ug/g	CYN006
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN008
			Chlorobenzene	LT 2.00 -1	ug/g	CYN006
			Chlordane	LT 2.30 -2	ug/g	CYN008
			Dicyclopentadiene	LT 4.50 -1	ug/g	CYP006
			Dieldrin	LT 3.30 -3	ug/g	CYN008
			Endrin	LT 5.80 -3	ug/g	CYN008
			Isodrin	LT 1.10 -3	ug/g	CYN008
			Methylisobutyl Ketone	LT 6.40 -1	ug/g	CYP006
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYN008

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladore and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0050	2-3	Soil	Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN008
			Tetrachloroethene	LT 2.70 -1	ug/g	CY0006
			Trichloroethene	LT 1.40 -1	ug/g	CY0006
0050	4-5	Soil	1,1,1-Trichloroethane	LT 8.80 -2	ug/g	CY0007
			1,1,2-Trichloroethane	LT 2.60 -1	ug/g	CY0007
			1,1-Dichloroethane	LT 2.40 -1	ug/g	CY0007
			1,1-Dichloroethane	LT 7.40 -2	ug/g	CY0007
			1,2-Dichloroethane	LT 2.60 -1	ug/g	CY0007
			1,2-Dichloroethane	LT 8.50 -2	ug/g	CY0007
			Aldrin	LT 1.90 -3	ug/g	CYN009
			Bicycloheptadiene	LT 1.10 0	ug/g	CYP007
			Carbon Tetrachloride	LT 1.20 -1	ug/g	CY0007
			Methylene Chloride	LT 3.70 0	ug/g	CY0007
			Chloroform	LT 6.80 -2	ug/g	CY0007
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN009
0051	0-1	Soil	Chlorobenzene	LT 2.00 -1	ug/g	CY0007
			Chlordane	LT 2.30 -2	ug/g	CYN009
			Dicyclopentadiene	LT 4.50 -1	ug/g	CYP007
			Dieldrin	LT 3.30 -3	ug/g	CYN009
			Endrin	LT 5.80 -3	ug/g	CYN009
			Isodrin	LT 1.10 -3	ug/g	CYN009
			Methylisobutyl Ketone	LT 6.40 -1	ug/g	CYP007
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYN009
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN009
			Tetrachloroethene	LT 2.70 -1	ug/g	CY0007
			Trichloroethene	LT 1.40 -1	ug/g	CY0007
			1,1,1-Trichloroethane	LT 8.80 -2	ug/g	CY0008
			1,1,2-Trichloroethane	LT 2.60 -1	ug/g	CY0008
			1,1-Dichloroethane	LT 2.40 -1	ug/g	CY0008
			1,1-Dichloroethane	LT 7.40 -2	ug/g	CY0008
			1,2-Dichloroethane	LT 2.60 -1	ug/g	CY0008

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0051	0-1	Soil	1,2-Dichloroethane	LT 8.50 -2	ug/g	CY0008
			Aldrin	LT 1.90 -3	ug/g	CYN010
			Bicycloheptadiene	LT 1.10 0	ug/g	CYP008
			Carbon Tetrachloride	LT 1.20 -1	ug/g	CY0008
			Methylene Chloride	LT 3.70 0	ug/g	CY0008
			Chloroform	LT 6.80 -2	ug/g	CY0008
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN010
			Chlorobenzene	LT 2.00 -1	ug/g	CY0008
			Chlordane	LT 2.30 -2	ug/g	CYN010
			Dicyclopentadiene	LT 4.50 -1	ug/g	CYP008
0051	1.5-2.5	Soil	Dieldrin	LT 3.30 -3	ug/g	CYN010
			Endrin	LT 5.80 -3	ug/g	CYN010
			Isodrin	LT 1.10 -3	ug/g	CYN010
			Methylisobutyl Ketone	LT 6.40 -1	ug/g	CYP008
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYN010
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN010
			Tetrachloroethene	LT 2.70 -1	ug/g	CY0008
			Trichloroethene	LT 1.40 -1	ug/g	CY0008
			1,1,1-Trichloroethane	LT 8.80 -2	ug/g	CY0009
			1,1,2-Trichloroethane	LT 2.60 -1	ug/g	CY0009
			1,1-Dichloroethane	LT 2.40 -1	ug/g	CY0009
			1,1-Dichloroethane	LT 7.40 -2	ug/g	CY0009
			1,2-Dichloroethane	LT 2.60 -1	ug/g	CY0009
			1,2-Dichloroethane	LT 8.58 -2	ug/g	CY0009
			Aldrin	LT 1.90 -3	ug/g	CYN011
			Bicycloheptadiene	LT 1.10 0	ug/g	CYP009
			Carbon Tetrachloride	LT 1.20 -1	ug/g	CY0009
			Methylene Chloride	LT 3.70 0	ug/g	CY0009
			Chloroform	LT 6.80 -2	ug/g	CY0009
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN011
			Chlorobenzene	LT 2.00 -1	ug/g	CY0009
			Chlordane	LT 2.30 -2	ug/g	CYN011
			Dicyclopentadiene	LT 4.50 -1	ug/g	CYP009

Note: Results for some parameters may appear in more than one analytical fraction.

Phase II Analytical Results

Task 20 , Site 2-17

Lake Ladora and Lake Mary

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0051	1.5-2.5	Soil	Dieldrin	LT 3.30 -3	ug/g	CYN011
			Endrin	LT 5.80 -3	ug/g	CYN011
			Isodrin	LT 1.10 -3	ug/g	CYN011
			Methylisobutyl Ketone	LT 6.40 -1	ug/g	CYP009
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYN011
0051	3.5-4.5	Soil	Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN011
			Tetrachloroethene	LT 2.70 -1	ug/g	CY0009
			Trichloroethene	LT 1.40 -1	ug/g	CY0009
			1,1,1-Trichloroethane	LT 8.80 -2	ug/g	CY0010
			1,1,2-Trichloroethane	LT 2.60 -1	ug/g	CY0010
			1,1-Dichloroethene	LT 2.40 -1	ug/g	CY0010
			1,1-Dichloroethane	LT 7.40 -2	ug/g	CY0010
			1,2-Dichloroethene	LT 2.60 -1	ug/g	CY0010
			1,2-Dichloroethane	LT 8.50 -2	ug/g	CY0010
			Aldrin	LT 1.90 -3	ug/g	CYN012
			Bicycloheptadiene	LT 1.10 0	ug/g	CYP010
			Carbon Tetrachloride	LT 1.20 -1	ug/g	CY0010
			Methylene Chloride	LT 3.70 0	ug/g	CY0010
			Chloroform	LT 6.80 -2	ug/g	CY0010
			Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN012
			Chlorobenzene	LT 2.00 -1	ug/g	CY0010
			Chlordane	LT 2.30 -2	ug/g	CYN012
			Dicyclopentadiene	LT 4.50 -1	ug/g	CYP010
			Dieldrin	LT 3.30 -3	ug/g	CYN012
			Endrin	LT 5.80 -3	ug/g	CYN012
			Isodrin	LT 1.10 -3	ug/g	CYN012
			Methylisobutyl Ketone	LT 6.40 -1	ug/g	CYP010
			Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYN012
			Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN012
			Tetrachloroethene	LT 2.70 -1	ug/g	CY0010
			Trichloroethene	LT 1.40 -1	ug/g	CY0010

Note: Results for some parameters may appear in more than one analytical fraction.

Summary of Analytical Results

Blanks Associated with Task 20
Lake Ladore and Lake Mary - Site 2-17

Type	Analytical Parameters	Results	Units	Sample Number
Blank	Cadmium	LT 7.40 -1	ug/g	CXU001
Blank	Chromium	1.82 1	ug/g	CXU001
Blank	Copper	9.85 0	ug/g	CXU001
Blank	Lead	1.53 1	ug/g	CXU001
Blank	Zinc	4.73 1	ug/g	CXU001
Blank	Dibromochloropropane	LT 5.00 -3	ug/g	CXW001
Blank	Aldrin	LT 1.90 -3	ug/g	CXW001
Blank	Chlordane	LT 2.30 -2	ug/g	CXW001
Blank	Dieldrin	LT 3.30 -3	ug/g	CXW001
Blank	Endrin	LT 5.80 -3	ug/g	CXW001
Blank	Isodrin	LT 1.10 -3	ug/g	CXW001
Blank	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CXW001
Blank	Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CXW001
Blank	Mercury	LT 5.00 -2	ug/g	CXY001
Blank	1,1,1-Trichloroethane	LT 3.00 -1	ug/g	CYL001
Blank	1,1,2-Trichloroethane	LT 3.00 -1	ug/g	CYL001
Blank	1,1-Dichloroethane	LT 9.00 -1	ug/g	CYL001
Blank	1,2-Dichloroethane	LT 3.00 -1	ug/g	CYL001
Blank	m-Xylene	LT 3.00 -1	ug/g	CYL001
Blank	Bicycloheptadiene	LT 3.00 -1	ug/g	CYL001
Blank	Benzene	LT 3.00 -1	ug/g	CYL001
Blank	Carbon Tetrachloride	LT 3.00 -1	ug/g	CYL001
Blank	Methylene Chloride	LT 7.00 -1	ug/g	CYL001
Blank	Chloroform	LT 3.00 -1	ug/g	CYL001
Blank	Chlorobenzene	LT 3.00 -1	ug/g	CYL001
Blank	Dibromochloropropane	LT 4.00 -1	ug/g	CYL001
Blank	Dicyclopentadiene	LT 3.00 -1	ug/g	CYL001
Blank	Dimethyldisulfide	LT 8.00 -1	ug/g	CYL001
Blank	Ethylbenzene	LT 3.00 -1	ug/g	CYL001
Blank	Toluene	LT 3.00 -1	ug/g	CYL001
Blank	Methylisobutyl Ketone	LT 3.00 -1	ug/g	CYL001
Blank	Tetrachloroethene	LT 3.00 -1	ug/g	CYL001

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.

Ebasco Services Incorporated
Summary of Analytical Results

Rocky Mountain Arsenal Program
Blanks Associated with Task 20
Lake Ladora and Lake Mary - Site 2-17

08/02/88

Type	Analytical Parameters	Results	Units	Sample Number
Blank	Trichloroethene	LT 3.00 -1	ug/g	CYLO01
Blank	Ortho- & Para-Xylene	LT 3.00 -1	ug/g	CYLO01
Blank	Aldrin	LT 1.90 -3	ug/g	CYN001
Blank	Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CYN001
Blank	Chlordane	LT 2.30 -2	ug/g	CYN001
Blank	Dieldrin	LT 3.30 -3	ug/g	CYN001
Blank	Endrin	LT 5.80 -3	ug/g	CYN001
Blank	Isodrin	LT 1.10 -3	ug/g	CYN001
Blank	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CYN001
Blank	Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CYN001
Blank	1,1,1-Trichloroethane	LT 8.80 -2	ug/g	CY0001
Blank	1,1,2-Trichloroethane	LT 2.60 -1	ug/g	CY0001
Blank	1,1-Dichloroethene	LT 2.40 -1	ug/g	CY0001
Blank	1,1-Dichloroethane	LT 7.40 -2	ug/g	CY0001
Blank	1,2-Dichloroethene	LT 2.60 -1	ug/g	CY0001
Blank	1,2-Dichloroethane	LT 8.50 -2	ug/g	CY0001
Blank	Carbon Tetrachloride	LT 1.20 -1	ug/g	CY0001
Blank	Methylene Chloride	LT 3.70 0	ug/g	CY0001
Blank	Chloroform	LT 6.80 -2	ug/g	CY0001
Blank	Chlorobenzene	LT 2.00 -1	ug/g	CY0001
Blank	Tetrachloroethene	LT 2.70 -1	ug/g	CY0001
Blank	Trichloroethene	LT 1.40 -1	ug/g	CY0001
Blank	Bicycloheptadiene	LT 1.10 0	ug/g	CYP001
Blank	Dicyclopentadiene	LT 4.50 -1	ug/g	CYP001
Blank	Methylisobutyl Ketone	LT 6.40 -1	ug/g	CYP001
Blank	Cadmium	LT 7.40 -1	ug/g	CYR001
Blank	Chromium	1.52 1	ug/g	CYR001
Blank	Copper	1.07 1	ug/g	CYR001
Blank	Lead	1.09 1	ug/g	CYR001
Blank	Zinc	4.05 1	ug/g	CYR001
Blank	1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYS001
Blank	1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYS001

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.

Summary of Analytical Results

Blanks Associated with Task 20
Lake Ladora and Lake Mary - Site 2-17

Type	Analytical Parameters	Results	Units	Sample Number
Blank	1,1-Dichloroethane	LT 1.70 0	ug/g	CYS001
Blank	1,2-Dichloroethane	LT 1.70 0	ug/g	CYS001
Blank	1,2-Dichloroethane	LT 5.60 -1	ug/g	CYS001
Blank	m-Xylene	LT 7.40 -1	ug/g	CYS001
Blank	Bicycloheptadiene	LT 3.60 -1	ug/g	CYS001
Blank	Benzene	LT 2.50 -1	ug/g	CYS001
Blank	Carbon Tetrachloride	LT 2.50 -1	ug/g	CYS001
Blank	Methylene Chloride	LT 1.50 0	ug/g	CYS001
Blank	Chloroform	LT 2.90 -1	ug/g	CYS001
Blank	Chlorobenzene	LT 1.50 0	ug/g	CYS001
Blank	Dibromochloropropane	LT 2.40 0	ug/g	CYS001
Blank	Dicyclopentadiene	LT 6.40 -1	ug/g	CYS001
Blank	Dimethyldisulfide	LT 2.00 1	ug/g	CYS001
Blank	Ethylbenzene	LT 3.80 -1	ug/g	CYS001
Blank	Toluene	LT 2.50 -1	ug/g	CYS001
Blank	Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYS001
Blank	Tetrachloroethene	LT 2.50 -1	ug/g	CYS001
Blank	Trichloroethene	LT 5.40 -1	ug/g	CYS001
Blank	Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYS001
Blank	1,1,1-Trichloroethane	LT 4.30 -1	ug/g	CYT001
Blank	1,1,2-Trichloroethane	LT 3.90 -1	ug/g	CYT001
Blank	1,1-Dichloroethane	LT 1.70 0	ug/g	CYT001
Blank	1,2-Dichloroethane	LT 1.70 0	ug/g	CYT001
Blank	m-Xylene	LT 5.60 -1	ug/g	CYT001
Blank	Bicycloheptadiene	LT 7.40 -1	ug/g	CYT001
Blank	Benzene	LT 3.60 -1	ug/g	CYT001
Blank	Carbon Tetrachloride	LT 2.50 -1	ug/g	CYT001
Blank	Methylene Chloride	LT 1.50 0	ug/g	CYT001
Blank	Chloroform	LT 2.90 -1	ug/g	CYT001
Blank	Chlorobenzene	LT 1.50 0	ug/g	CYT001
Blank	Dibromochloropropane	LT 2.40 0	ug/g	CYT001
Blank	Dicyclopentadiene	LT 6.40 -1	ug/g	CYT001
Blank	Dimethyldisulfide	LT 2.00 1	ug/g	CYT001

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.

Type	Analytical Parameters	Results	Units	Sample Number
Blank	Ethylbenzene	LT 3.80 -1	ug/g	CYT001
Blank	Toluene	LT 2.50 -1	ug/g	CYT001
Blank	Methylisobutyl Ketone	LT 7.30 -1	ug/g	CYT001
Blank	Tetrachloroethene	LT 2.50 -1	ug/g	CYT001
Blank	Trichloroethene	LT 5.40 -1	ug/g	CYT001
Blank	Ortho- & Para-Xylene	LT 4.90 0	ug/g	CYT001
Blank	1,1,1-Trichloroethane	LT 3.00 -1	ug/g	CYT001
Blank	1,1,2-Trichloroethane	LT 3.00 -1	ug/g	CYT001
Blank	1,1-Dichloroethane	LT 9.00 -1	ug/g	CYT001
Blank	1,2-Dichloroethane	LT 3.00 -1	ug/g	CYT001
Blank	m-Xylene	LT 7.00 -1	ug/g	CYT001
Blank	Bicycloheptadiene	LT 3.00 -1	ug/g	CYT001
Blank	Benzene	LT 3.00 -1	ug/g	CYT001
Blank	Carbon Tetrachloride	LT 3.00 -1	ug/g	CYT001
Blank	Methylene Chloride	LT 7.00 -1	ug/g	CYT001
Blank	Chloroform	LT 3.00 -1	ug/g	CYT001
Blank	Chlorobenzene	LT 3.00 -1	ug/g	CYT001
Blank	Dibromochloropropane	LT 4.00 -1	ug/g	CYT001
Blank	Dicyclopentadiene	LT 3.00 -1	ug/g	CYT001
Blank	Dimethyldisulfide	LT 8.00 -1	ug/g	CYT001
Blank	Ethylbenzene	LT 3.00 -1	ug/g	CYT001
Blank	Toluene	LT 3.00 -1	ug/g	CYT001
Blank	Methylisobutyl Ketone	LT 3.00 -1	ug/g	CYT001
Blank	Tetrachloroethene	LT 3.00 -1	ug/g	CYT001
Blank	Trichloroethene	LT 3.00 -1	ug/g	CYT001
Blank	Ortho- & Para-Xylene	LT 3.00 -1	ug/g	CYT001
Blank	Dibromochloropropane	LT 1.40 -2	ug/g	CYT001
Blank	Aldrin	LT 1.90 -3	ug/g	CYT001
Blank	Chlordane	LT 2.30 -2	ug/g	CYT001
Blank	Dieldrin	LT 3.30 -3	ug/g	CYT001
Blank	Endrin	LT 5.80 -3	ug/g	CYT001
Blank	Isodrin	LT 1.10 -3	ug/g	CYT001

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.

Summary of Analytical Results

Blanks Associated with Task 20
Lake L'dora and Lake Mary - Site 2-17

Type	Analytical Parameters	Results	Units	Sample Number
Blank	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CY0001
Blank	Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CY0001
Blank	Aldrin	LT 1.90 -3	ug/g	CY0001
Blank	Chlordane	LT 2.30 -2	ug/g	CY0001
Blank	Dieldrin	LT 3.30 -3	ug/g	CY0001
Blank	Endrin	LT 5.80 -3	ug/g	CY0001
Blank	Isodrin	LT 1.10 -3	ug/g	CY0001
Blank	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CY0001
Blank	Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CY0001
Blank	Aldrin	LT 1.90 -3	ug/g	CZ0001
Blank	Chlordane	LT 2.30 -2	ug/g	CZ0001
Blank	Dieldrin	LT 3.30 -3	ug/g	CZ0001
Blank	Endrin	LT 5.80 -3	ug/g	CZ0001
Blank	Isodrin	LT 1.10 -3	ug/g	CZ0001
Blank	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ0001
Blank	Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CZ0001
Blank	Aldrin	LT 1.90 -3	ug/g	CZ0001
Blank	Chlordane	LT 2.30 -2	ug/g	CZ0001
Blank	Dieldrin	LT 3.30 -3	ug/g	CZ0001
Blank	Endrin	LT 5.80 -3	ug/g	CZ0001
Blank	Isodrin	LT 1.10 -3	ug/g	CZ0001
Blank	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ0001
Blank	Dichlorodiphenyltrichloroethane	LT 2.00 -3	ug/g	CZ0001
Blank	Mercury	LT 5.00 -2	ug/g	CZ0001
Blank	Aldrin	LT 1.90 -3	ug/g	CZ0001
Blank	Hexachlorocyclopentadiene	LT 1.80 -3	ug/g	CZ0001
Blank	Chlordane	LT 2.30 -2	ug/g	CZ0001
Blank	Dieldrin	LT 3.30 -3	ug/g	CZ0001

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.

Ebasco Services Incorporated

Rocky Mountain Arsenal Program

08/02/88

Summary of Analytical Results

Blanks Associated with Task 20
Lake Ladora and Lake Mary - Site 2-17

Type	Analytical Parameters	Results	Units	Sample Number
Blank	Endrin	LT 5.80 -3	ug/g	CZND001
Blank	Isodrin	LT 1.10 -3	ug/g	CZND001
Blank	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZND001
Blank	Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZND001
Blank	Aldrin	LT 1.90 -3	ug/g	CZ0001
Blank	Chlordane	LT 2.30 -2	ug/g	CZ0001
Blank	Dieldrin	LT 3.30 -3	ug/g	CZ0001
Blank	Endrin	LT 5.80 -3	ug/g	CZ0001
Blank	Isodrin	LT 1.10 -3	ug/g	CZ0001
Blank	Dichlorodiphenylethane	LT 2.40 -3	ug/g	CZ0001
Blank	Dichlorodiphenyltrichloro-ethane	LT 2.00 -3	ug/g	CZ0001

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.